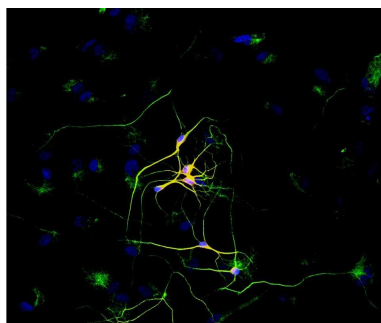
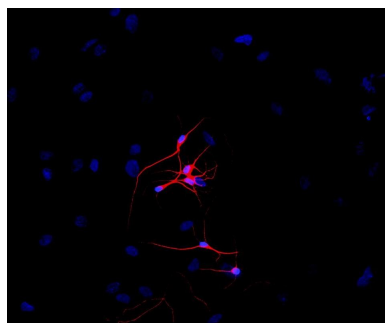
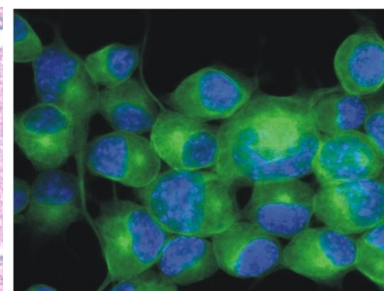
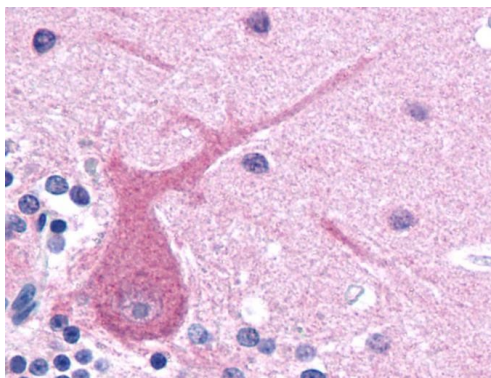
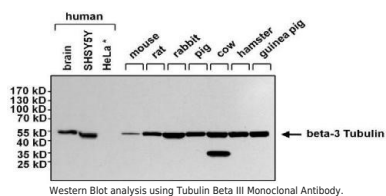


|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name:</b>  | Tubulin betaIII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cat number:</b>    | MAB-10288                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Conjugate:</b>     | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Size:</b>          | 100 ug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clone:</b>         | TU-20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Concentration:</b> | 1mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Host:</b>          | Ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Isotype:</b>       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Immunogen:</b>     | Peptide (C) 441-448 coupled to maleimide-activated keyhole limpet hemocyanin via cysteine added to the N-terminus of the neuron-specific peptide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reactivity:</b>    | Hu, Ms, Ch, Bv, Pig, Rt, Ha, Fh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications:</b>  | Flow Cytometry Western Blotting Recommended dilution:1-2 µg/ml, 90 min<br>Positive control: Porcine brain lysate Negative control: HPB-ALL human peripheral blood leukemia cell line Sample preparation: Mix lysate with reducing Laemmli SDS-PAGE sample buffer. Application note: Reducing conditions.<br>Immunohistochemistry (paraffin sections) Recommended dilution: 10 µg/ml<br>Staining technique: Standard ABC technique (DAB+) Pretreatment: 0.1% pepsin (trypsin) in 0.1 M HCl; incubation 30 min in RT; or High temperature citrate buffer antigen retrieval Positive tissue: neuronal tissue Immunocytochemistry<br>Positive material: Neuro2a mouse neuroblastoma cell line |
| <b>Purification:</b>  | Aff. Pur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form:</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Buffer:</b>        | Phosphate buffered saline (PBS) solution with 15 mM sodium azide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage:</b>       | Store at 2-8°C. Do not freeze.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Background:</b>    | The tubulin beta III isoform is present dominantly in cells of neuronal origin and it is one of the earliest markers of neuronal differentiation. It is regarded as a specific probe for the cells of neuronal origin as well as for the tumours originating from these cells. The betaIII-tubulin is most abundant in cells of neuronal origin, but was also detected in Sertoli cells of the testis and transiently in non-neuronal embryonic tissues. The antibody TU-20 recognizes C-terminal peptide sequence ESESQGP (aa 441-448) of neuron-specific human beta III-tubulin.                                                                                                        |



Immunocytochemistry staining of P-19 mouse embryonal carcinoma cell line stimulated to neuronal differentiation by retinoic acid. A - Microtubules decorated with neuron-specific anti-betaIII-tubulin (TU-20; red). B - Merged image of co-staining with anti-beta-tubulin (TU-06; green; cat. no. 11-251-C100). Superposition of red and green colours provided yellow staining. Nuclei were stained with DNA-binding dye (blue).