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| <b>Product name:</b>     | SPTLC1 (serine)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cat number:</b>       | AB-81447                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Size:</b>             | 100 ug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Clone:</b>            | POLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration:</b>    | 1mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Host:</b>             | Rb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype:</b>          | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen:</b>        | Recombinant fusion protein containing a sequence corresponding to amino acids 37-310 of human SPTLC1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reactivity:</b>       | Hu, Ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Applications:</b>     | Western Blot: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Weight:</b> | 53kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purification:</b>     | Aff. Pur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form:</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Buffer:</b>           | PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage:</b>          | Store at -20°C. Avoid freeze / thaw cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Background:</b>       | This gene encodes a member of the class-II pyridoxal-phosphate-dependent aminotransferase family. The encoded protein is the long chain base subunit 1 of serine palmitoyltransferase. Serine palmitoyltransferase converts L-serine and palmitoyl-CoA to 3-oxosphinganine with pyridoxal 5'-phosphate and is the key enzyme in sphingolipid biosynthesis. Mutations in this gene were identified in patients with hereditary sensory neuropathy type 1. Alternatively spliced variants encoding different isoforms have been identified. Pseudogenes of this gene have been defined on chromosomes 1, 6, 10, and 13. |



Western blot analysis of extracts of various cell lines, using SPTLC1 antibody at 1:1000 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.  
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit.  
Exposure time: 90s.