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| <b>Cat. No:</b>       | IS20158-1   |
| <b>Size:</b>          | 1 mg  |
| <b>Clone:</b>         | POLY  |
| <b>Concentration:</b> | 2mg/ml  |
| <b>Host:</b>          | Rabbit  |
| <b>Isotype:</b>       | IgG   |
| <b>Reactivity:</b>    | Mouse   |
| <b>Applications:</b>  | 1-10 µg/mL of the IgG conjugate for most applications (appropriate dilutions of the conjugate should be determined empirically).  |
| <b>Purification:</b>  | Aff. Pur.   |
| <b>Background:</b>    | Alexa Fluor 594 is a deep red fluorescent dye spectrally similar to Texas Red® dye. On protein, Alexa Fluor 594 is significantly brighter than Cy 594 because of its high quantum yield and excellent water solubility. Alexa Fluor 594 also has excellent photostability necessary for demanding applications, such as confocal and single molecular imaging. These properties make Alexa Fluor 594 the best deep red dye for labeling proteins and nucleic acids. The dye is particularly useful to combine with our blue fluorescent AF 350, green fluorescent AF 488A and far red AF 647 for multi-color imaging. |
| <b>Form:</b>          | liquid  |
| <b>Buffer:</b>        | pH~7.4 PBS containing 50% glycerol, 2 mg/ml bovine serum albumin (IgG-free and protease-free) and 0.05% sodium azide.   |
| <b>Storage:</b>       | Store at 4°C for several months. Protect from light. For longer storage, divide the conjugate into small aliquots and freeze at -20°C. Avoid repeated freezing and thawing.   |
| <b>Properties:</b>    | Color and Form: Purple solution. Spectral Property: $\lambda_{abs}/\lambda_{em} = 593/614$ nm (in pH 7.4 PBS buffer) Alexa Fluor 594 is spectrally similar to CyTM 3.5, Texas Red®, and DyLightTM 594   |

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