

DESCRIPTION

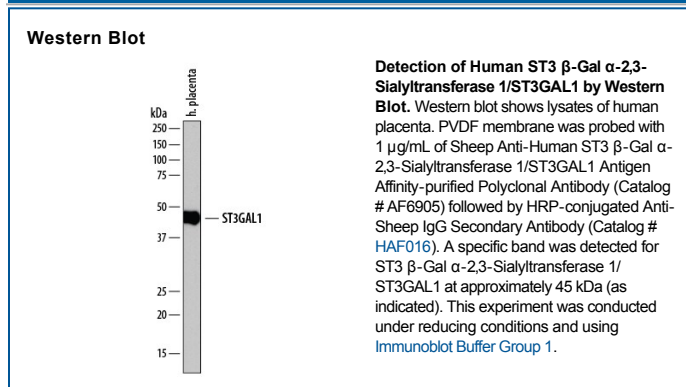
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|---------------------------|--|
| Species Reactivity | Human |
| Specificity | Detects human ST3 β -Gal α -2,3-Sialyltransferase 1/ST3GAL1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human ST3GAL2 is observed. |
| Source | Polyclonal Sheep IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | human ST3 β -Gal α -2,3-Sialyltransferase 1/ST3GAL1 Accession # Q11201 |
| Formulation | Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|---------------------|----------------------------------|---------------|
| Western Blot | 1 μ g/mL | See Below |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 $^{\circ}$ C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 $^{\circ}$C as supplied. ● 1 month, 2 to 8 $^{\circ}$C under sterile conditions after reconstitution. ● 6 months, -20 to -70 $^{\circ}$C under sterile conditions after reconstitution. |

BACKGROUND

ST3 β -Gal α -2,3-Sialyltransferase 1 (ST3GAL1, also known as SIAT4 and SIAT4A) is a 45 kDa member of glycosyltransferase family 29 that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The full length ST3GAL1 is a type II Golgi membrane glycoprotein that can be proteolytically processed to a soluble form. ST3Gal1 contributes to the alpha2-3-sialylation of O-glycans such as T antigens. Upon maturation of Dendritic cells derived from monocytes ST3GAL1 is altered in a stimulus-dependent manner. Multiple isoforms of human ST3GAL1 have been described. Human ST3GAL1 shares 85% identity with mouse ST3GAL1.