

DESCRIPTION

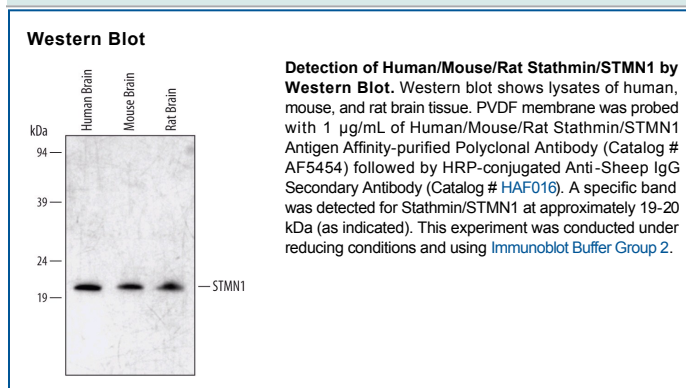
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat STMN1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human STMN1 Met1-Asp149 Accession # P16949
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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 µg/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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

BACKGROUND

STMN1 (Stathmin [Greek for *relay*]; also Op18, Pr22 and LAP18) is a 19 kDa member of the Stathmin family of proteins. It is a ubiquitously expressed cytoplasmic phosphoprotein that destabilizes microtubules during cell quiescence. Human STMN1 is 149 amino acids (aa) in length and the entire molecule forms a Stathmin domain that consists of a phosphorylatable regulatory sequence (aa 2-65), and an overlapping α -helical interaction region (aa 60-149). Phosphorylation on Ser16, 25, 38 and 63 destabilizes STMN1 and allows for microtubule polymerization during the cell cycle. There is one potential isoform that shows a 38 aa substitution for aa 79-149. Full-length human STMN1 shares 99% aa identity with mouse STMN1.