

DESCRIPTION

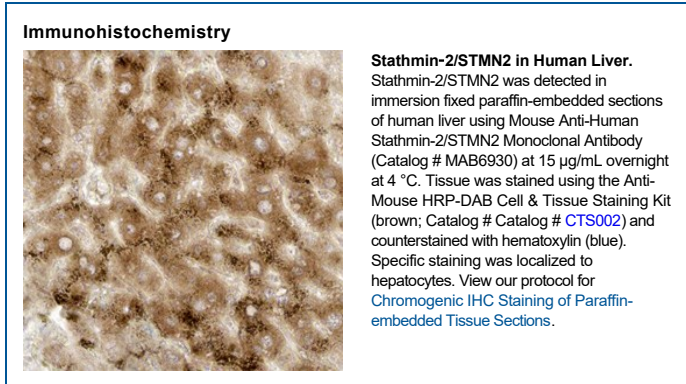
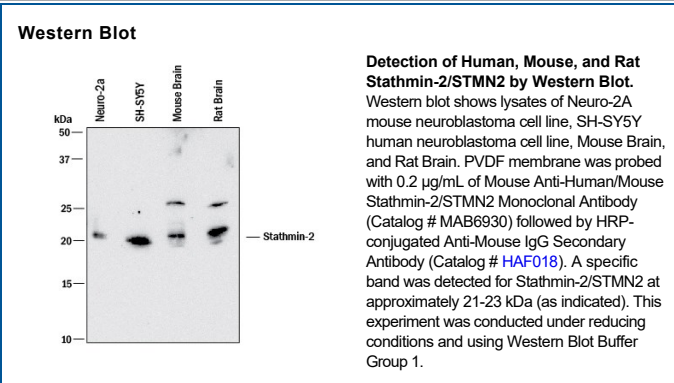
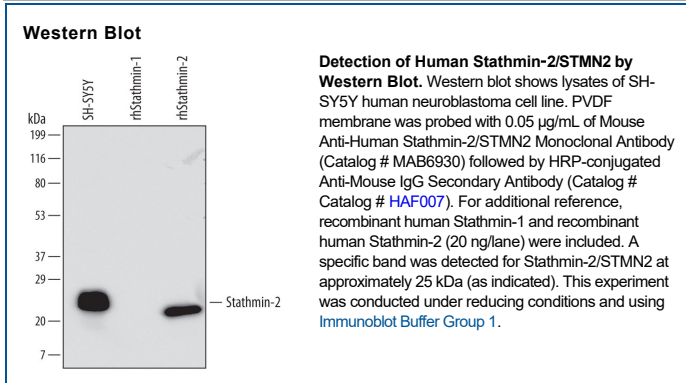
Species Reactivity	Human/Mouse
Specificity	Detects human Stathmin-2/STMN2 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human Stathmin-1, -3, or -4 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 684433
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Stathmin-2/STMN2 Tyr26-Gly179 Accession # Q93045
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm 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	0.05 - 0.2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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 °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 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Stathmin-2 (STMN2), also known as superior cervical ganglion 10 protein (SCG10), is a 19 kDa microtubule-destabilizing protein that is preferentially expressed in neurons. It promotes neuronal proliferation and migration as well as neurite outgrowth. Stathmin-2 contains a membrane attachment region (aa 1-26), a regulatory domain (aa 39-96), and an overlapping coiled-coil domain (aa 75-179). It is subject to phosphorylation of multiple serines within the regulatory domain. Within aa 26-179, human Stathmin-2 shares 100% and 99% aa sequence identity with mouse and rat Stathmin-2, respectively.