

Human/Mouse Stathmin-2/STMN2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 684433

Catalog Number: MAB6930

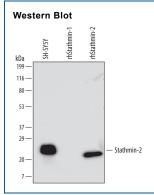
DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects human Stathmin-2/STMN2 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human Stathmin-1, -3, or -4 is observed.		
Source	Monoclonal Mouse IgG _{2B} Clone # 684433		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-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.

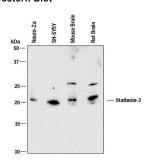
	Recommended Concentration	Sample
Western Blot	0.05 - 0.2 μg/mL	See Below
Immunohistochemistry	8-25 μg/mL	See Below

DATA



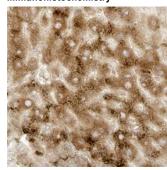
Detection of Human Stathmin-2/STMN2 by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line. PVDF membrane was probed with 0.05 µg/mL of Mouse Anti-Human Stathmin-2/STMN2 Monoclonal Antibody (Catalog # MAB6930) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF007). For additional reference, recombinant human Stathmin-1 and recombinant human Stathmin-2 (20 ng/lane) were included. A specific band was detected for Stathmin-2/STMN2 at approximately 25 KDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Western Blot



Detection of Human, Mouse, and Rat Stathmin-2/STMN2 by Western Blot. Western blot shows lysates of Neuro-2A mouse neuroblastoma cell line, SH-SY5Y human neuroblastoma cell line, Mouse Brain, and Rat Brain. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human/Mouse Stathmin-2/STMN2 Monoclonal Antibody (Catalog # MAB6930) followed by HRPconjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Stathmin-2/STMN2 at approximately 21-23 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Immunohistochemistry



Stathmin-2/STMN2 in Human Liver.
Stathmin-2/STMN2 was detected in immersion fixed paraffin-embedded sections of human liver using Mouse Anti-Human Stathmin-2/STMN2 Monoclonal Antibody (Catalog # MAB6930) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CT5002) and counterstained with hematoxylin (blue). Specific staining was localized to hepatocytes. View our protocol for Chromogenic IHC Staining of Paraffinembedded Tissue Sections.

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.

- 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.

Rev. 1/7/2022 Page 1 of 2





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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.

Rev. 1/7/2022 Page 2 of 2

