

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
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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