

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Substance P.
Source	Monoclonal Mouse IgG ₁ Clone # 266815
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	KLH-coupled mouse Substance P synthetic peptide RPKPQQFFGLM
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.

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

Substance P (Neurokinin-1), is member of the tachykinin peptide family. Processing of preprotachykinin isoforms generates Substance P and other tachykinins. Active Substance P is an 11 amino acid peptide, RPKPQQFFGLM, that is identical across all mammalian species. Substance P is mainly secreted from C-type fibers of primary sensory afferent neurons after stimulation through protease-activated receptor 2 (PAR2). Substance P binds primarily to the neurokinin 1 receptor on neurons in the dorsal horn, transmitting pain signals through the central nervous system.

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