RD SYSTEMS a biotechne brand

Human/Mouse/Rat Substance P Antibody

Monoclonal Mouse IgG₁ Clone # 266815 Catalog Number: MAB4375

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
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.

PREPARATION AND S	STORAGE
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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 $^\circ$ 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.

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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