

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Spinesin in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 376620
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Spinesin Tyr27-Leu457 (Phe369Leu) Accession # Q0P514
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.
Immunoprecipitation	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

Spinesin, encoded by the TMPRSS5 gene, is a member of type II transmembrane serine proteases (TTSPs) (1). Human Spinesin contains the following structural domains: a short N-terminal cytoplasmic tail (amino acids 1-49), a transmembrane domain (amino acids 50-70), a stem region and a serine protease domain (amino acids 71-457) (2). The domain structure of Spinesin is common to other TTSPs, many of which have additional domains. The stem region of Spinesin contains a scavenger receptor-like domain. The ectodomain of human Spinesin (amino acids 71-457) was expressed and purified as a single chain pro-enzyme. The deduced amino acid sequence contains a Leu instead of a Phe residue at position 369; the former is identical to the mouse protein (3, 4). The amino acid sequence of human Spinesin is 94%, 82%, 81% and 79% identical to that of chimpanzee, canine, rat and mouse.

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