

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse MSP R/Ron in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human MSP R/Ron is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse MSP R/Ron Ser24-Arg960 (Ile372Leu) Accession # CAA52754
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

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

Macrophage stimulating protein receptor (MSP R), encoded by the human *RON* and the mouse *Stk*, is one of a small family of receptor tyrosine kinases (RTKs) that also includes human Met (the receptor for hepatocyte growth factor) and chicken Sea. This family of receptors is synthesized as a single-chain precursor that is cleaved into a mature disulfide-linked heterodimer composed of an extracellular α chain and a membrane spanning β chain with intrinsic tyrosine kinase activity. Mouse MSP R cDNA encodes a 1378 amino acid (aa) residue precursor protein with a 23 aa signal peptide, a 287 aa residue α chain (Ser 24 - Arg 310) and a 1068 aa residue transmembrane β chain (Gly 311 - Thr 1378). Expression of MSP receptor is restricted to specific areas of the central and peripheral nervous systems, epithelial cells along the digestive tract, skin and lung, and in subpopulations of the mononuclear phagocyte lineage. Both the heterodimeric MSP and the free MSP β chain have been shown to bind to MSP R. However, only the heterodimeric MSP binding can induce receptor dimerization and phosphorylation and cause biological activity.

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