

DESCRIPTION

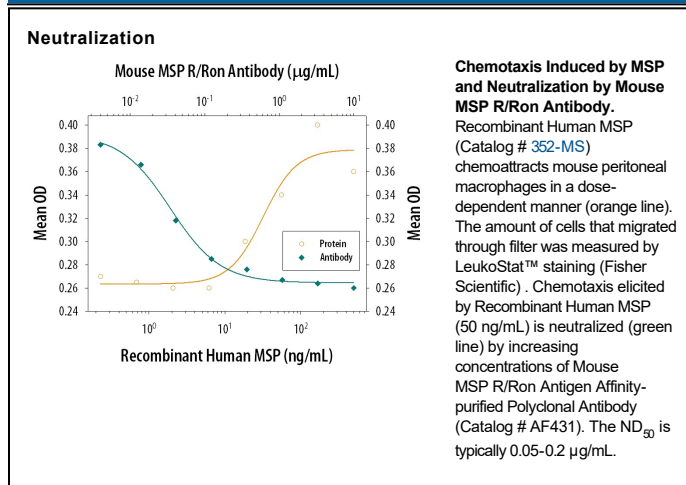
Species Reactivity	Mouse
Specificity	Detects mouse MSP R/Ron in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human MSP R/Ron is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse MSP R/Ron Ser24-Arg960 (Ile372Leu) Accession # CAA52754
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse MSP R/Ron Fc Chimera (Catalog # 431-MS)
Neutralization		Measured by its ability to neutralize MSP-induced chemotaxis in mouse peritoneal macrophages [Wang, M-H. <i>et al.</i> (1994) <i>J. Biol. Chem.</i> 269 :3436]. The Neutralization Dose (ND ₅₀) is typically 0.05-0.2 µg/mL in the presence of 50 ng/mL Recombinant Human MSP.

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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

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.

References:

1. Gaudino, G. *et al.* (1994) EMBO J. **13**:3524.
2. Wang, M-H. *et al.* (1994) Science **266**:117.
3. Wang, M-H. *et al.* (1997) J. Biol. Chem. **272**:16999.