

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse MSP/MST1 in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant human MSP is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse MSP/MST1 Gly19-Gly716 (Cys677Ala) Accession # NP_032269
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.

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

MSP (Macrophage stimulating protein 1; also hepatocyte growth factor-like protein) is an 80-95 kDa member of the peptidase S1 family of proteins. Although it is expressed principally by hepatocytes, it can also be induced in cells such as renal tubular epithelium. MSP has multiple targets, and as such, has multiple effects. It stimulates macrophage motility and phagocytosis, promotes keratinocyte and renal tubular cell proliferation, and depresses myeloid progenitor cell replication. Mouse proMSP is 698 amino acids (aa) in length. It contains one PAN (carbohydrate-binding) site (aa 19-105), four consecutive kringle domains (110-457) and an inactive peptidase S1 region (aa 489-714). An intrachain disulfide bond exists between Cys477 and Cys593 that becomes an interchain bond following protease cleavage between Arg488 and Val489. This creates a mature heterodimer containing a 45-57 kDa α-chain, and a 30-35 kDa β-chain. Mouse proMSP shares 80% and 93% aa identity with human and rat proMSP, respectively.

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