

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Hepsin in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 506230
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Hepsin Ser46-Leu417 Accession # P05981
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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

Hepsin, also known as TMPRSS1, is a Type II membrane protein with an extracellular serine protease domain (1). It is most highly expressed in liver but is also present in many other tissues; most notably lung, kidney, and skeletal muscle (2). A soluble form of Hepsin lacking the transmembrane domain has been identified (3). Hepsin is capable of activating Factor VII and may initiate blood coagulation at the cell surface (4). Hepsin is over-expressed in various human tumors including prostate (5) and is considered to be a biomarker for prostate cancer (6). Recombinant human (rh) Hepsin was expressed as a secreted, soluble protein lacking its cytosolic and transmembrane domains. The D161E and R162K mutations were introduced into the prosequence to improve expression of the rhHepsin.

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