

Product Datasheet

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Anti-Human Hepsin (Clone 3H10.1)

Purified

Monoclonal Antibody

Product Information

Product No.: H5510
Clone: 3H10.1
RRID: AB_2830337
Isotype: Mouse IgG1 κ
Storage: Sterile 2-8°C

Product Description

Specificity:

Clone 3H10.1.2 is able to recognize full-length native Hepsin expressed on the cell surface in addition to the recombinant soluble form. Clones 3H1.1.1 and 1F2.1.1 bind to the same epitope as clone 3H10.1.2 and inhibit it (and each other) from binding Hepsin. Clone 3H10.1.2 and clone 2D5.1.9 bind separate epitopes and do not inhibit each other from binding Hepsin.

Antigen Distribution:

Hepsin is expressed on the surface of epithelial cells including the liver, kidney, prostate, and thyroid in human tissues.

Background:

Hepsin is a type II transmembrane serine protease (TTSP) expressed on the surface of epithelial cells including the liver, kidney, prostate, and thyroid in human tissues. The physiological function of hepsin is unclear, although, *In vitro* studies have shown that hepsin activates blood clotting factors VII, XII, and IX, pro-urokinase (pro-uPA), and pro-hepatocyte growth factor (pro-HGF). The over-expression of hepsin has been implicated in several types of cancer, especially ovarian and prostate, which makes it an attractive diagnostic marker for cancers. Most notably, hepsin has been identified as one of the most highly induced genes in prostate cancer, and this over-expression is correlated with the cancer progression and metastasis. Furthermore anti-hepsin antibodies have been shown to inhibit the invasion of human prostate cancer cells.¹

Known Reactivity Species:

Hamster, Human, Primate

Format:

Purified

Immunogen:

Human hepsin protein

Formulation

This purified antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

Storage and Stability

This purified antibody is stable when stored at 2-8°C. **Do not freeze.**

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

ELISA

FC

Country of Origin

USA

References

1. Wu, Q. and Parry, G. (2007) *Front Biosci* **12** 5052-9
2. Kirchhofer, D. *et al.* (2006) *J Biol Chem* **281**(41):30439-46.

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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