Bulk Anti-Human Hepsin (3H10.1) Antibody

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Product Benefits:

ichorbio's bulk anti-human Hepsin antibody (3H10.1) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from Bio X Cell at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

Target:

Hepsin

Clone:

3H10.1

Isotype:

Mouse IgG1 ?

Other Names:

Serine protease hepsin, hpn

Uniprot:

P05981

Host:

Mouse

Species Reactivity:

Human

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.

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

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.

Immunogen:

Human hepsin protein

Concentration:

1.0 mg/ml

Formulation:

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and azide free

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

? 1.0 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ? 5%

Aggregation level ? 1%

IMPACT Pathogen Test:

We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our mouse antibodies are tested for: Mycoplasma spp. Mycoplasma pulmonis Sendai virus Mouse hepatitis virus Pneumonia virus of mice Minute virus of mice Mouse parvovirus (MPV1-5) Theiler's murine encephalomyelitis virus Murine norovirus Reovirus 3 Mouse rotavirus Ectromelia virus Lymphocytic choriomeningitis virus Polyoma virus Lactate dehydrogenase-elevating virus Mouse adenovirus (MAD1, MAD2) Mouse cytomegalovirus K virus Mouse thymic virus Hantaan virus Corynebacterium bovis Corynebacterium spp. (HAC2)

Storage:

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

ELISA, Flow Cytometry

Application Notes:

Each investigator should determine their own optimal working dilution for specific applications.

Use:

Products are for research use only.