Biotinylated Anti-human Hepsin Antibody

ORDERING INFORMATION

Catalog Number: BAF4776

Lot Number: CAUX01

Size: 50 μg

Formulation: 0.2 μm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human Hepsin extracellular domain

Immunogen: NS0-derived rhHepsin extracellular domain

Ig Type: sheep IgG

Application: Western blot

Background

Hepsin (Transmembrane protease serine 1) is a 51 kDa member of the peptidase S1 family of enzymes. It is expressed by both hepatocytes and numerous tumor cells, and activates HGF plus pro-uPA. Human Hepsin is a type II transmembrane protein that is 417 amino acids (aa) in length. It contains a 23 aa N-terminal cytoplasmic region and a 373 aa extracellular domain (ECD) (aa 45 - 417). The ECD possesses a SRCR segment (aa 54 - 151) and a peptidase S1 domain (aa 163 - 405). Over aa 46 - 417, human Hepsin shares 90% and 96% aa identity with mouse and canine Hepsin, respectively.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant human Hepsin extracellular domain (rhHepsin). Human Hepsin specific IgG was purified by human Hepsin affinity chromatography and then biotinylated.

Formulation

Lyophilized from a 0.2 μm filtered solution in phosphate-buffered saline (PBS) containing 50 μg of bovine serum albumin (BSA) per 1 μg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 μg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human Hepsin Western blots.

Application

Western blot - This antibody can be used at 0.1 - 0.2 μg/mL with the appropriate secondary reagents to detect human Hepsin. The detection limit for rhHepsin is approximately 5 ng/lane under non-reducing and reducing conditions.

Optimal dilutions should be determined by each laboratory for each application.

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