Monoclonal Anti-mouse Hip Antibody

ORDERING INFORMATION

Catalog Number: MAB1568

Clone: 217413

Lot Number: JSC01

Size: 500 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse Hip

Immunogen: NS0-deived rmHip extracellular domain

Ig class: rat IgG_{2A}

Recommended Application:
Western blot

Other Application:
Direct ELISA

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, NS0-derived, recombinant mouse Hedgehog interacting protein (rmHip) extracellular domain. The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. Hip is a type I transmembrane protein that binds all three mammalian Hedgehogs: Sonic (Shh), Desert (Dhh) and Indian (Ihh). Hip is expressed in a variety of organs, adjacent to sites of hedgehog expression, where it regulates the availability of Hedgehog ligands extracellularly and acts as a potent antagonist of Hedgehog signaling.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 500 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 was selected for its ability to detect mouse Hip in direct ELISAs and western blots.

Applications

Western Blot - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect mouse Hip. The detection limit for rmHip is approximately 25 ng/lane under non-reducing and reducing conditions.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse Hip. The detection limit for rmHip is approximately 6 ng/well.

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

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