



Anti-mouse Shh N-terminal peptide Antibody

ORDERING INFORMATION

Catalog Number: AF464

Lot Number: BIP05

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: rmShh N-terminal peptide

Immunogen: *E. coli*-derived 6X histidine-tagged rmShh N-terminal peptide (aa 25 - 198) and C-terminal peptide (aa 199 - 437)

Ig Type: mouse 6X histidine-tagged Shh N-terminal peptide specific goat IgG

Applications: Western blot
Immunohistochemistry
Direct ELISA

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant mouse 6X histidine-tagged Sonic Hedgehog (rmShh) N-terminal peptide. Shh N-terminal peptide specific IgG was purified by mouse Shh N-terminal peptide affinity chromatography.

Formulation

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

Endotoxin Level

< 0.2 EU per 1 µg of the antibody as determined by the LAL method.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 mg/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 its ability to recognize rmShh N-terminal peptide in direct ELISA and Western blot assays. Based on Western blot results, this antibody shows less than 1% cross-reactivity with 6X histidine-tagged rmShh C-terminal peptide (aa 199 - 437).

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse Shh N-terminal peptide. The detection limit for rmShh N-terminal peptide is approximately 1 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry - This antibody will detect Shh in cryostat sections of rat brain. The working dilution is 15 µg/mL. Detection may be done using either fluorescent probes or chromogenic R&D Systems anti-goat Cell and Tissue Staining kits (CTS Series). It is also recommended to use R&D Systems antigen retrieval reagents. The working dilution after antigen retrieval is 10 µg/mL.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse Shh N-terminal peptide. The detection limit for rmShh N-terminal peptide is approximately 0.5 ng/well.

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