



Anti-mouse Shh C-terminal peptide Antibody

ORDERING INFORMATION

Catalog Number: AF445

Lot Number: BIQ03

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse Shh C-terminal peptide

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

Ig Type: 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) C-terminal peptide and N-terminal peptide. Shh C-terminal peptide specific IgG was purified by first passing the goat sera over a mouse Shh N-terminal peptide affinity column. The unbound fraction from the mouse Shh N-terminal peptide affinity column was subsequently purified using a mouse Shh C-terminal peptide affinity column.

Formulation

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

Endotoxin Level

< 0.1 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 mouse Shh C-terminal peptide in the applications listed below. Based on direct ELISA and western blot results, this antibody shows less than 5% cross-reactivity with rmDhh C-terminal peptide and less than 1% cross-reactivity with a 6X histidine-tagged rmShh N-terminal peptide (aa 25 - 198).

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse Shh C-terminal peptide. The detection limit for rmShh C-terminal peptide is approximately 5 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).

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse Shh C-terminal peptide. The detection limit for rmShh C-terminal peptide is approximately 0.3 ng/well.

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

For immunohistochemistry images, please refer to our website at <http://www.rndsystems.com/go/ihc>

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