

Product Information

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Anti-Msx2

produced in rabbit, affinity isolated antibody

Catalog Number **M1069**

Product Description

Anti-Msx2 is produced in rabbit using as immunogen a synthetic peptide, HGAREAHSPGPL, corresponding to amino acids 84-95 of human Msx2. The antibody is affinity-purified using the immunizing peptide immobilized on resin.

Anti-Msx2 specifically recognizes human and rodent Msx2 by immunoblotting (28.8 kDa), immunocytochemistry, and immunohistochemistry (frozen sections). Other species reactivity have not been confirmed.

Msx2, also referred to as Hox-8, is a member of the Msh homeobox family of transcription factors. Msx2 may play a role in limb-pattern formation.

Reagent

Supplied at 1 mg/mL in a 50% ammonium sulfate suspension in PBS, containing no preservatives.

Preparation Instructions

Note: During shipment, small volumes may become entrapped in the seal of the product vial. We recommend briefly centrifuging the vial in a tabletop centrifuge to dislodge any entrapped liquid

Method 1: Immunostaining and Immunoblotting

1. Carefully resuspend antibody to uniformity.
2. Remove a fixed amount of suspension and dilute 1:10 in PBS or TBS to yield a 100 µg/ml solution.

Method 2: Immunoprecipitation, supershift, immunostaining and immunoblotting

1. Pellet antibody at 10,000 – 15,000 x g for 10 minutes at 2-8 °C using a microcentrifuge.
2. Carefully remove as much supernatant as possible. It is not necessary to remove all the ammonium sulfate solution; a small residual amount will not effect the antibody preparation. Reconstitute the pellet in PBS or TBS at a final concentration of 1 mg/mL, e.g., 100 µg/100 µL. Do not allow the pellet to dry out. This can cause loss of activity. Gently allow pellet to dissolve at least 1 hour before use. Do not vortex. Mix by finger-tapping or gentle stirring.

Storage/Stability

The undiluted ammonium sulfate suspension can be stored at 2-8 °C for up to one month. For extended storage, store in working aliquots at –20 °C.

Diluted antiserum, if not used on the day of preparation, should be stored in aliquots at –20 °C.

Reconstituted antibody may be stored at 2-8 °C for up to one month. Addition of a preservative (15 mM sodium azide) may be necessary. For extended storage, add an equal volume of high purity glycerol, final concentration 50%, and BSA, final concentration 1%, and store at –20 °C.

Product Profile

Immunoblotting, Immunocytochemistry, and Immunohistochemistry: minimum recommended working dilutions are 1:200.

Note: In order to obtain the best results and assay sensitivity in various techniques and preparations, we recommend determining optimal working dilutions by titration.

Reference

1. Iimura, T., Molecular cloning and expression of homeobox-containing genes during hard tissue development. *Kokubyo Gakkai Zasshi*, **61**, 590-604 (1994).
2. Suzuki, M., et al., Over-expression of HOX-8, the human homologue of the mouse Hox-8 homeobox gene in human tumors. *Biochem. Biophys. Res. Commun.*, **194**, 187-193 (1993).
3. Jabs, E.W., et al., A mutation in the homeodomain of the human Msx2 gene in a family affected with autosomal dominant craniosynostosis. *Cell*, **75**, 443-450 (1993).

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