

Anti-FGFA/FHFA (pan)

Catalog# SMC-448D

Size: 100µg

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This product is for *in vitro* research use only and is not intended for use in humans or animals

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Product	Mouse anti- FGFA/FHFA (pan) antibody; monoclonal
Clone	S235-22
Immunogen	Synthetic peptide amino acids 2-18 (AAAIASLIRQKRQARE) of human FHF2A (accession # Q92913). 100% identical to rat, 94% identical to mouse. >80% identity with FGF12A/FHF1A, FGF14A/FHF4A and FGF11A/FHF3A.
Host and Subclass	Mouse, IgG2 _b
Cited Applications	WB, ICC, IHC
Specificity	Detects a 30 kDa protein. Does not cross-react with FGF13B/FHF2B. Cross reacts with FGF12A/FHF1A and FGF14A/FHF4A.
Species cross-reactivity	Human, Rat, Mouse
Format	Protein G purified. In PBS pH 7.4, 0.1% NaN ₃ and 50% glycerol.
Concentration and Working Dilution	1mg/ml; 1:1000 (WB)
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

This gene is located to a region associated with Borjeson-Forsman-Lehmann syndrome (BFLS), a syndromal X-linked mental retardation, which suggests it may be a candidate gene for familial cases of the BFL syndrome. The function of this gene has not yet been determined. Two alternatively spliced transcripts encoding different isoforms have been described for this gene.

Selected References

1. Gecz, J., et al. (1999) Hum. Genet. 104: 56-63.
2. Smallwood, P. M., et al. (1996) Proc. Nat. Acad. Sci. 93: 9850-9857.

Certificate of Analysis

1µg/mL of SMC-448 was sufficient for detection of FGFA/FHFA (pan) in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Scientific Background

FGF13(Fibroblast growth factor 13), also called FHF2 is a protein that in humans is encoded by the FGF13 gene. The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF13 is a large gene, extending over approximately 200 kb in Xq26.3, and contains at least 7 exons. By cytogenetic, FISH, and database analysis, Gecz et al. (1999) localized the FGF13 gene within a 400-kb duplication interval on chromosome Xq26.3. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion.

Material Safety Data Sheet

Anti- FGFA/FHFA (pan) (Monoclonal Antibody) SMC-448

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
None		

Physical Data

This product consists of whole rabbit serum shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences Inc.

Creation Date: 11/1/2013