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Datasheet for 200-301-W62

FGFA/FHFA (pan) Antibody

Overview

Description:	Anti-FGFA/FHFA (pan) (MOUSE) Monoclonal Antibody - 200-301-W62
Item No.:	200-301-W62
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

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. FGF13is 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. Other areas of interests and use for researchers include cancer, borjeson-forssman-lehmann syndrome, regulation of actin cytoskeleton pathways, apoptosis, GPCR pathways, TGF-Beta pathways, and Rho family GTPase pathways. This gene is located to a region associated with Borjeson-Forssman-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.
Synonyms:	Acidic fibroblast growth factor, AFGF, Beta endothelial cell growth factor, Fibroblast growth factor homologous factor 2A, Fibroblast growth factor 13A, FGF13A, Beta-endothelial cell growth factor, ECGF, ECGFA antibody, ECGFB, FHF-2, FHF2, FHF13, Fibroblast growth factor homologous factor 2, Fibroblast growth factor 13
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S235-22
Format:	IgG2b

Target Details

Gene Name:	FGF13
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-FGFA/FHFA (pan) Antibody was produced by repeated immunization of mice with a synthetic peptide containing amino acids 2-18 of human FHF2A.
Purity/Specificity:	Anti-FGFA/FHFA (pan) Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 94% identical to mouse, 100% identical to rat and >80% identical to FGF12A/FHF1A, FGF14A/FHF4A, and FGF11A/FHF3A.
Relevant Links:	• UniProtKB - Q92913 • GeneID - 2258

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-FGFA/FHFA (pan) Antibody is tested for Western Blots, Immunohistochemistry and Immunocytochemistry. Expect a band approximately ~30 kDa on specific lysates or tissues. Does not cross react with FGF13B/FHF2B. Will cross react with FGF12A/FHF1A and FGF14A/FHF4A. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IHC:	User Optimized
WB:	1:1000

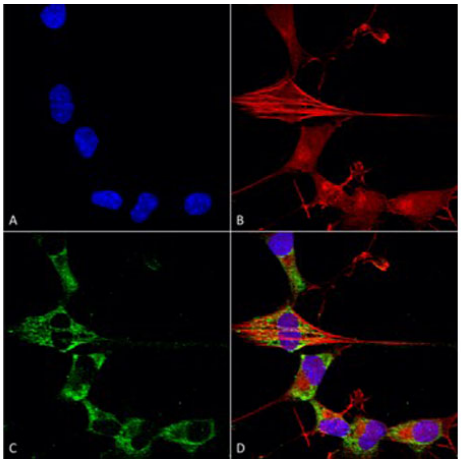
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

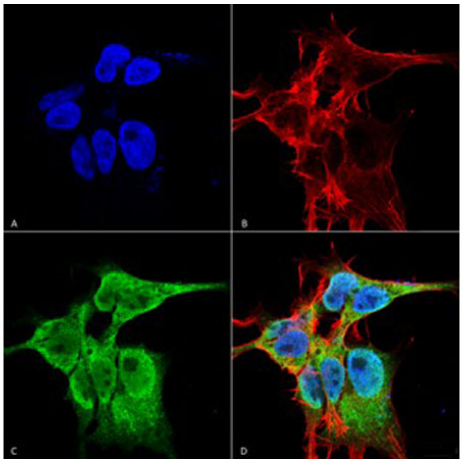
Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

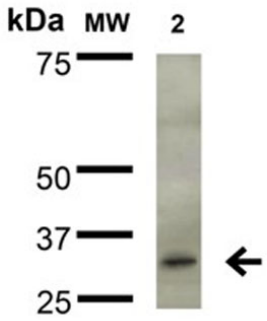
Images



Immunofluorescence Microscopy
Immunofluorescence of Mouse Anti-FGFA/FHFA (pan) Monoclonal Antibody.
Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human.
Fixation: 4% PFA for 15 min.
Primary Antibody: Mouse Anti-FGFA/FHFA (pan) Monoclonal Antibody at 1:50 for overnight at 4°C.
Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT.
Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) FGFA/FHFA (pan) Antibody (D) Composite.



Immunofluorescence Microscopy
Immunofluorescence of Mouse Anti-FGFA/FHFA (pan) Monoclonal Antibody.
Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human.
Fixation: 4% Formaldehyde for 15 min at RT.
Primary Antibody: Mouse Anti-FGFA/FHFA (pan) Monoclonal Antibody at 1:100 for 60 min at RT.
Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT.
Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000; 1:5000 for 60 min RT, 5 min RT.
Localization: Cell Projection, Nucleus, Cytoplasm.
Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) FGFA/FHFA (pan) Antibody. (D) Composite.



Western Blot
Western Blot of Anti-FGFA/FHFA.
Load: 15 µg. Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane.
Block: 2% BSA and 2% Skim Milk in 1X TBST.
Primary Antibody: Mouse Anti-FGFA/FHFA (pan) Monoclonal Antibody at 1:200 for 16 hours at 4°C.
Secondary Antibody: Goat Anti-Mouse IgG HRP at 1:1000 for 1 hour RT.
Color Development: ECL solution for 6 min in RT.
Predicted/Observed Size: ~30 kDa.

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