

FGF13 Rabbit pAb

Catalog # AP97654

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q92913
Other Accession	Q92913
Predicted	Pig, Human, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27564
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FGF13
Epitope Specificity	51-150/245
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the heparin-binding growth factors family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. 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. This gene is located in a region on chromosome X, which is associated with Borjeson-Forssman-Lehmann syndrome (BFLS), making it a possible candidate gene for familial cases of the BFLS, and for other syndromal and nonspecific forms of X-linked mental retardation mapping to this region. Fibroblast growth factor 13 (FGF13) is probably involved in nervous system development and function. Alternative splicing of this gene results in several transcript variants encoding different isoforms with different N-termini.

Additional Information

Gene ID	2258
Other Names	DEE90; FGF-13; FGF2; FHF-2; FHF2; LINC00889; XLID110; Fgf1c; FGF13_HUMAN; FGF13; Fibroblast growth factor homologous factor 2 (FHF-2); FGF13_MOUSE; FGF13_RAT; fibroblast growth factor 13; long intergenic non-protein coding RNA 889; fibroblast growth factor homologous factor 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	FGF13 (HGNC:3670)
Synonyms	FHF2
Function	Microtubule-binding protein which directly binds tubulin and is involved in both polymerization and stabilization of microtubules (By similarity). Through its action on microtubules, may participate in the refinement of axons by negatively regulating axonal and leading processes branching (By similarity). Plays a crucial role in neuron polarization and migration in the cerebral cortex and the hippocampus (By similarity). Regulates voltage-gated sodium channel transport and function (PubMed: 15282281 , PubMed: 33245860 , PubMed: 36696443). May also play a role in MAPK signaling (By similarity). Required for the development of axonal initial segment-targeting inhibitory GABAergic synapses made by chandelier neurons (By similarity).
Cellular Location	[Isoform 1]: Nucleus [Isoform 3]: Cytoplasm. Nucleus [Isoform 5]: Cytoplasm {ECO:0000250 UniProtKB:P61329}. Nucleus {ECO:0000250 UniProtKB:P61329}
Tissue Location	Ubiquitously expressed. Predominantly expressed in the nervous system.

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