abcam

Product datasheet

Anti-FLJ22167 antibody ab62475

2 Images

Overview

Product name	Anti-FLJ22167 antibody
Description	Rabbit polyclonal to FLJ22167
Host species	Rabbit
Tested applications	**Suitable for:** WB, ELISA, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Rabbit, Horse, Guinea pig, Cow, Cat, Dog, Zebrafish
Immunogen	A region within synthetic peptide: FNSGFWLKRS SYEEQPTVRF QHQVLLVALL GPESDGFLAW STFPAFNRLQ, corresponding to amino acids 73-122 of Human FLJ22167 Run BLAST with ExPASy Run BLAST with NCBI
Positive control	Human kidney tissue and HepG2 cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 2% Sucrose, PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab62475** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1.25 µg/ml. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration. ELISA titre using peptide based assay: 1/312500.
IHC-P		Use a concentration of 4 - 8 µg/ml.

Target

Function

Transmembrane component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Required for ciliogenesis and sonic hedgehog/SHH signaling.

Involvement in disease

Defects in TMEM231 are the cause of Joubert syndrome 20 (JBTS20) [MIM:614970]. A disorder presenting with cerebellar ataxia, oculomotor apraxia, hypotonia, neonatal breathing abnormalities and psychomotor delay. Neuroradiologically, it is characterized by cerebellar vermian hypoplasia/aplasia, thickened and reoriented superior cerebellar peduncles, and an abnormally large interpeduncular fossa, giving the appearance of a molar tooth on transaxial slices (molar tooth sign). Additional variable features include retinal dystrophy and renal disease.

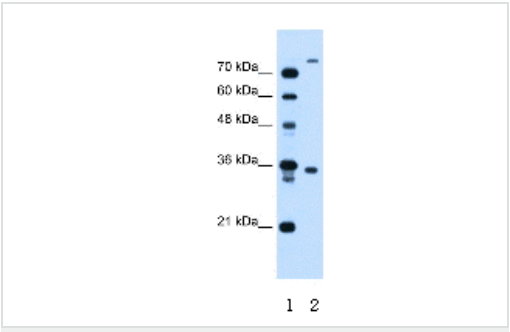
Sequence similarities

Belongs to the TMEM231 family.

Cellular localization

Cell projection > cilium membrane. Localizes to the transition zone of primary cilia; SEPT2 is required for localization to the transition zone.

Images



Western blot - Anti-FLJ22167 antibody (ab62475)

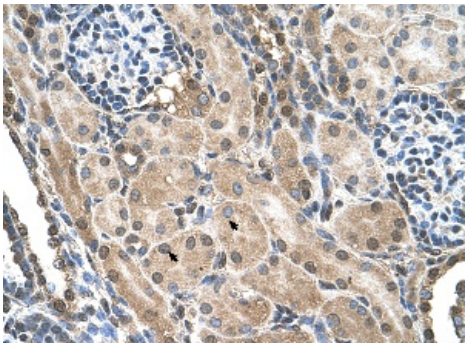
All lanes : Anti-FLJ22167 antibody (ab62475) at 1.25 µg/ml

Lane 1 : marker
Lane 2 : HepG2 cell lysate at 10 µg

Secondary
All lanes : HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 36 kDa
Observed band size: 36 kDa
Additional bands at: 75 kDa. We are unsure as to the identity of these extra bands.

Gel concentration 12%



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FLJ22167 antibody (ab62475)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling FLJ22167 with ab62475 at 4-8µg/ml. Arrows indicate positively labelled renal tubule epithelial cells. Magnification: 400X.

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