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FUZ/FUZZY Rabbit pAb

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Catalog # AP55100

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9BT04
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45679
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FUZ/FUZZY
Epitope Specificity	101-200/418
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Cytoplasm; cytoskeleton.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	FUZ is a 418 amino acid protein that localizes to both the cytoskeleton and the cytoplasm and is a human homolog of the Drosophila fuzzy protein. Existing as three alternatively spliced isoforms, FUZ is thought to be involved in regulating cytoskeletal function and may also play a role in maintaining cell polarity in epithelial cells. The gene encoding FUZ maps to human chromosome 19, which is the genetic home for a number of immunoglobulin superfamily members, including the killer cell and leukocyte Ig-like receptors, several ICAMs, the CEACAM and PSG family and Fc receptors (FcRs). Key genes for eye color and hair color also map to chromosome 19.

Additional Information

Gene ID	80199
Other Names	Protein fuzzy homolog, FUZ, FY
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	FUZ
Synonyms	FY
Function	Probable planar cell polarity effector involved in cilium biogenesis. May regulate protein and membrane transport to the cilium. Proposed to function as core component of the CPLANE (ciliogenesis and planar polarity effectors) complex involved in the recruitment of peripheral IFT-A proteins to basal bodies. May regulate the morphogenesis of hair follicles which depends on functional primary cilia. Binds phosphatidylinositol 3-phosphate with highest affinity, followed by phosphatidylinositol 4-phosphate and phosphatidylinositol 5-phosphate (By similarity).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q2HZX7}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q2HZX7}. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q3UYI6}

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.