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IFT122 Rabbit pAb

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Catalog # AP56039

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9HBG6
Predicted	Rat, Human, Mouse, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	141825
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IFT122
Epitope Specificity	1-100/1241
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. Cell projection, cilium (By similarity). Cytoplasm, cytoskeleton, cilium basal body (By similarity). Note=Localizes to photoreceptor connecting cilia (By similarity).
DISEASE	Cranioectodermal dysplasia 1 (CED1) [MIM:218330]: A disorder characterized by craniofacial, skeletal and ectodermal abnormalities. Clinical features include dolichocephaly (with or without sagittal suture synostosis), scaphocephaly, short stature, limb shortening, short ribs, narrow chest, brachydactyly, renal failure and hepatic fibrosis, small and abnormally shaped teeth, sparse hair, skin laxity and abnormal nails. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	IFT122 is a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. This cytoplasmic protein contains seven WD repeats and an AF-2 domain which function by recruiting coregulatory molecules and in transcriptional activation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Additional Information

Gene ID	55764
Other Names	Intraflagellar transport protein 122 homolog, WD repeat-containing protein 10, WD repeat-containing protein 140, IFT122 (HGNC:13556), SPG, WDR10,

	WDR140
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	IFT122 (HGNC:13556)
Synonyms	SPG, WDR10, WDR140
Function	As a component of the IFT complex A (IFT-A), a complex required for retrograde ciliary transport and entry into cilia of G protein-coupled receptors (GPCRs), it is required in ciliogenesis and ciliary protein trafficking (PubMed:20889716, PubMed:27932497, PubMed:29220510, PubMed:36775821). Involved in cilia formation during neuronal patterning (By similarity).
Cellular Location	Cell projection, cilium. Cytoplasm, cytoskeleton, cilium basal body. Note=Localizes to photoreceptor connecting cilia. {ECO:0000250|UniProtKB:Q6NWV3}
Tissue Location	Expressed in many tissues. Predominant expression in testis and pituitary.

Background

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