10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AHI1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21713c

Product Information

Application	WB, E
Primary Accession	Q8N157
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53478
Calculated MW	137115

Additional Information

Gene ID	54806
Other Names	Jouberin, Abelson helper integration site 1 protein homolog, AHI-1, AHI1
Target/Specificity	This AHI1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 389-422 amino acids from the Central region of human AHI1.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	AHI1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AHI1
Function	Involved in vesicle trafficking and required for ciliogenesis, formation of primary non-motile cilium, and recruitment of RAB8A to the basal body of primary cilium. 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. Involved in neuronal differentiation. As a positive modulator of

	classical Wnt signaling, may play a crucial role in ciliary signaling during cerebellum embryonic development (PubMed:21623382).
Cellular Location	Cytoplasm, cytoskeleton, cilium basal body. Cell junction, adherens junction. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole {ECO:0000250|UniProtKB:Q8K3E5}. Note=In the retinal photoreceptor cell layer, localizes at the connecting cilium {ECO:0000250|UniProtKB:Q8K3E5}
Tissue Location	Highly expressed in the most primitive normal hematopoietic cells. Expressed in brain, particularly in neurons that give rise to the crossing axons of the corticospinal tract and superior cerebellar peduncles. Expressed in kidney (renal collecting duct cells) (at protein level).

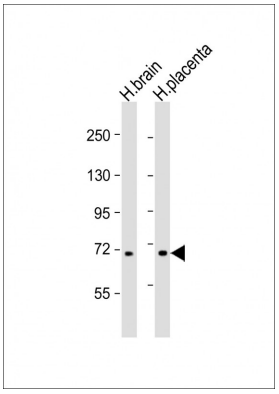
Background

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.

References

Close J.P.,et al.BMC Genomics 5:33-33(2004).
Westin E.H.,et al.Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
Wiemann S.,et al.Genome Res. 11:422-435(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mungall A.J.,et al.Nature 425:805-811(2003).

Images



All lanes : Anti-AHI1 Antibody (Center) at 1:2000 dilution Lane 1: human brain lysate Lane 2: human placenta lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 137 kDa Blocking/Dilution buffer: 5% NFDM/TBST.