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# AHI1 Blocking Peptide (Center)

**Synthetic peptide**
**Catalog # BP21713c**

## Specification

### AHI1 Blocking Peptide (Center) - Product Information

Primary Accession Q8N157

### AHI1 Blocking Peptide (Center) - Additional Information

**Gene ID** 54806

**Other Names**
Jouberin, Abelson helper integration site 1 protein homolog, AHI-1, AHI1

**Target/Specificity**
The synthetic peptide sequence is selected from aa 409-422 of HUMAN AHI1

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### AHI1 Blocking Peptide (Center) - 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:<a href="http://www.uniprot.org/citations/21623382" target="_blank">21623382</a>).

**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).

**AHI1 Blocking Peptide (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

**AHI1 Blocking Peptide (Center) - Images**

**AHI1 Blocking Peptide (Center) - 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.

**AHI1 Blocking Peptide (Center) - 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).