

SPEF1 Antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI16160

Product Information

Application	WB
Primary Accession	Q9Y4P9
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26987

Additional Information

Gene ID	25876
Alias Symbol Other Names	SPEF1, C20orf28, Sperm flagellar protein 1, SPEF1, C20orf28
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 μ l of distilled water. Final Anti-SPEF1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	SPEF1 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SPEF1
Synonyms	C20orf28
Function	Microtubule-associated protein involved in the stabilization of microtubules along the axis of migration during radial intercalation. Promotes the establishment and stabilization of an axis of microtubules required for the active migration of cells into the outer epithelium (By similarity). Microtubule-associated protein that promotes microtubule bundling and stabilizes microtubules against depolymerization in response to cold shock (By similarity). Essential for ciliary central apparatus formation which requires both its microtubule-binding and bundling activities and for ciliary localization of HYDIN and SPAG6 in ependymal cilia (By similarity). Binds actin in intestinal epithelial cells (IECs), essential for IECs survival and contributes to formation of filopodia and lamellipodia in migrating IECs (PubMed:31473225). Regulates planar cell polarity signaling pathway and asymmetric microtubule

accumulation in ciliated epithelia (By similarity).

Cellular Location

Cytoplasm. Cell projection, cilium, flagellum
{ECO:0000250|UniProtKB:Q99JL1} Cytoplasm, cytoskeleton, cilium axoneme
{ECO:0000250|UniProtKB:Q0IH24} Apical cell membrane. Basolateral cell membrane. Cytoplasm, cytoskeleton, stress fiber. Cell projection, microvillus. Cell projection, lamellipodium. Cell projection, filopodium. Note=Present in the tails of developing and epididymal sperm, internal to the fibrous sheath and around the outer dense fibers of the sperm flagellum. Also found at the apical tip of cilia (By similarity). Colocalizes with TJP1 and CGN at sites of cell-cell contact in intestinal epithelial cells (PubMed:31473225)
{ECO:0000250|UniProtKB:Q0IH24, ECO:0000269|PubMed:31473225}

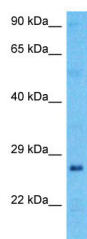
Tissue Location

Expressed in the intestinal epithelial cells (at protein level).

References

Wiemann S.,et al.Genome Res. 11:422-435(2001).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Deloukas P.,et al.Nature 414:865-871(2001).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Chan S.W.,et al.Gene 353:189-199(2005).

Images



Host: Rabbit
Target Name: SPEF1
Sample Tissue: Ovary Tumor Lysate
Antibody Dilution: 1.0µg/ml

Host: Rabbit
Target Name: SPEF1
Sample Tissue: Ovary Tumor lysates
Antibody Dilution: 1.0µg/ml

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