

FAM65B Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54840

Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession Q9Y4F9

Reactivity Rat, Pig, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 118519
Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived from human FAM65B

Epitope Specificity 201-300/1068

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA. 0.02% Proclin

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. **SUBCELLULAR LOCATION** Mitochondrion and Cytoplasm; cytoskeleton. Cell projection; filopodium.

Detected in cellular filopodia.

SIMILARITY Belongs to the FAM65 family.

Post-translationalMsn-41 was reported (PubMed:16335952) to be N-glycosylated; however as this position is probably not extracellular, the in vivo relevance is not proven.

This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

Background Descriptions Making up nearly 6% of the human genome, chromosome 6 contains around

1,200 genes within 170 million base pairs of sequence. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer suggesting the presence of a cancer susceptibility locus. Porphyria cutanea tarda is associated with chromosome 6 through the HFE gene which, when mutated, predisposes an individual to developing this porphyria. Notably, the PARK2 gene, which is associated with Parkinson's disease, and the genes encoding the major histocompatiblity complex proteins, which are key molecular components of the immune system and determine predisposition to rheumatic diseases, are also located on chromosome 6. Stickler syndrome, 21-hydroxylase deficiency and maple syrup urine disease are also associated with genes on chromosome 6. A bipolar disorder susceptibility locus has been identified on the q arm of chromosome 6. The C6orf32 gene product has been provisionally designated C6orf32 pending further characterization.

Additional Information

Gene ID 9750

Other Names Rho family-interacting cell polarization regulator 2, RIPOR2

Target/Specificity Isoform 1 is present in the brain. Isoform 2 is expressed during

differentiation of fetal primary myoblasts. Also shows marked expression

during cytotrophoblast differentiation.

Dilution WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50

0,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 RIPOR2

Function Acts as an inhibitor of the small GTPase RHOA and plays several roles in the

regulation of myoblast and hair cell differentiation, lymphocyte T proliferation and neutrophil polarization (PubMed:17150207, PubMed:23241886,

PubMed:24687993, PubMed:24958875, PubMed:25588844,

PubMed: 27556504). Inhibits chemokine-induced T lymphocyte responses, such as cell adhesion, polarization and migration (PubMed: 23241886). Involved also in the regulation of neutrophil polarization, chemotaxis and adhesion (By similarity). Required for normal development of inner and outer hair cell stereocilia within the cochlea of the inner ear (By similarity). Plays a role for maintaining the structural organization of the basal domain of stereocilia (By similarity). Involved in mechanosensory hair cell function (By

similarity). Required for normal hearing (PubMed:24958875).

Cellular Location Cytoplasm. Cytoplasm, cytoskeleton. Cell projection, filopodium. Cell

projection, stereocilium {ECO:0000250 | UniProtKB:Q80U16}. Cell projection, stereocilium membrane {ECO:0000250 | UniProtKB:Q7TP54}. Apical cell membrane {ECO:0000250 | UniProtKB:Q7TP54}. Note=Localized in the cytoplasm in cells undergoing mitosis (PubMed:17150207). Colocalized with F-actin (PubMed:17150207). Localized with RHOC within the basal domain of hair cell stereocilia, near the taper region (By similarity). Detected in punctate pattern forming a circumferential ring at the stereocilia base (By similarity). Localized to the apical stereocilia of inner and outer hair cells (By similarity). Not detected as a membrane-associated protein in stereocilia (By similarity). {ECO:0000250 | UniProtKB:Q80U16,

ECO:0000269 | PubMed:17150207} [Isoform 2]: Cytoplasm. Note=Accumulates at the leading edge of polarized neutrophils in a chemokine-dependent

manner (PubMed:25588844).

Tissue Location Expressed in primary fetal mononuclear myoblast (PubMed:17150207).

Expressed strongly in naive T lymphocytes (PubMed:27556504). Expressed weakly in activated T lymphocytes (at protein level) (PubMed:27556504). Expressed in blood cells and adult tissues of hematopoietic origin, such as the

secondary lymphoid organs (PubMed:23241886). Expressed in

cytotrophoblast (PubMed:9055809)

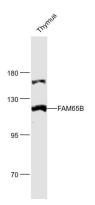
Images

Sample:

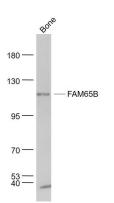
Thymus (Mouse) Lysate at 40 ug

Primary: Anti-FAM65B (AP54840) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at

1/20000 dilution



Predicted band size: 118 kD Observed band size: 118 kD



Sample:

Bone (Mouse) Lysate at 40 ug Primary: Anti- FAM65B (AP54840) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 118 kD Observed band size: 118 kD

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