

**FAM65B Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54840****Specification****FAM65B Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">Q9Y4F9</a>
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	118 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAM65B
Epitope Specificity	201-300/1068
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
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-translational modifications	Asn-41 was reported (PubMed:16335952) to be N-glycosylated; however as this position is probably not extracellular, the in vivo relevance is not proven.
Important Note	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. Porphyrria 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 histocompatibility 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.

**FAM65B Polyclonal Antibody - 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**

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**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.

**FAM65B Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/17150207" target="\_blank">17150207</a>, PubMed:<a href="http://www.uniprot.org/citations/23241886" target="\_blank">23241886</a>, PubMed:<a href="http://www.uniprot.org/citations/24687993" target="\_blank">24687993</a>, PubMed:<a href="http://www.uniprot.org/citations/24958875" target="\_blank">24958875</a>, PubMed:<a href="http://www.uniprot.org/citations/25588844" target="\_blank">25588844</a>, PubMed:<a href="http://www.uniprot.org/citations/27556504" target="\_blank">27556504</a>). Inhibits chemokine-induced T lymphocyte responses, such as cell adhesion, polarization and migration (PubMed:<a href="http://www.uniprot.org/citations/23241886" target="\_blank">23241886</a>). 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:<a href="http://www.uniprot.org/citations/24958875" target="\_blank">24958875</a>).

**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:Q7TP54, 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**

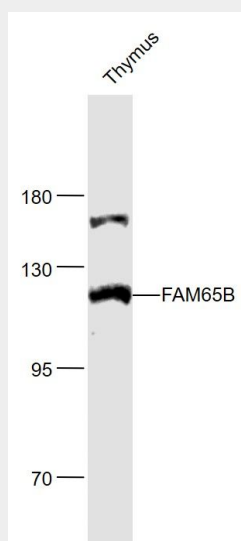
Expressed in primary fetal mononuclear myoblast (PubMed:17150207). Expressed strongly in naive T lymphocytes (PubMed:27556504). Expressed weakly in activated T lymphocytes (at protein level) (PubMed:27556504). Expressed in blood cells and adult tissues of hematopoietic origin, such as the secondary lymphoid organs (PubMed:23241886). Expressed in cytotrophoblast (PubMed:9055809)

#### **FAM65B Polyclonal Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **FAM65B Polyclonal Antibody - Images**



**Sample:**

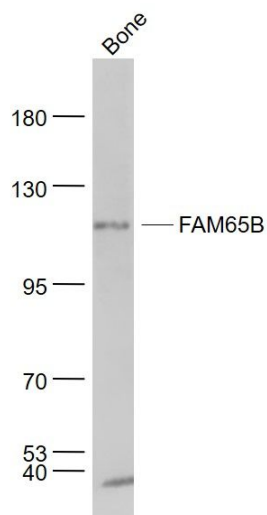
Thymus (Mouse) Lysate at 40 ug

Primary: Anti-FAM65B (bs-12370R) 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 (bs-12370R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 118 kD

Observed band size: 118 kD