

**Anti-BAI1 Antibody**  
Rabbit polyclonal antibody to BAI1  
Catalog # AP60542**Specification**

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**Anti-BAI1 Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">O14514</a>
Other Accession	<a href="#">Q3UHD1</a>
Reactivity	Human, Mouse, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	173501

**Anti-BAI1 Antibody - Additional Information****Gene ID** 575**Other Names**

Brain-specific angiogenesis inhibitor 1

**Target/Specificity**

Recognizes endogenous levels of BAI1 protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)

IF~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-BAI1 Antibody - Protein Information****Name** ADGRB1 ([HGNC:943](#))**Function**

Phosphatidylserine receptor which enhances the engulfment of apoptotic cells (PubMed:[24509909](http://www.uniprot.org/citations/24509909)). Also mediates the binding and engulfment of Gram-negative bacteria (PubMed:[26838550](http://www.uniprot.org/citations/26838550)). Stimulates production of reactive oxygen species by macrophages in response to Gram-negative bacteria, resulting in enhanced microbicidal macrophage activity (PubMed:[26838550](http://www.uniprot.org/citations/26838550)). In the gastric mucosa, required for recognition and engulfment of apoptotic gastric epithelial cells (PubMed:[26838550](http://www.uniprot.org/citations/26838550)).

<http://www.uniprot.org/citations/24509909> target="\_blank">24509909</a>). Promotes myoblast fusion (By similarity). Activates the Rho pathway in a G-protein-dependent manner (PubMed:<a href="http://www.uniprot.org/citations/23782696" target="\_blank">23782696</a>). Inhibits MDM2-mediated ubiquitination and degradation of DLG4/PSD95, promoting DLG4 stability and regulating synaptic plasticity (By similarity). Required for the formation of dendritic spines by ensuring the correct localization of PARD3 and TIAM1 (By similarity). Potent inhibitor of angiogenesis in brain and may play a significant role as a mediator of the p53/TP53 signal in suppression of glioblastoma (PubMed:<a href="http://www.uniprot.org/citations/11875720" target="\_blank">11875720</a>).

#### Cellular Location

Cell membrane; Multi-pass membrane protein. Cell projection, phagocytic cup {ECO:0000250|UniProtKB:Q3UHD1}. Cell junction, focal adhesion {ECO:0000250|UniProtKB:Q3UHD1}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:C0HL12}. Postsynaptic density {ECO:0000250|UniProtKB:Q3UHD1} [Vasculostatin-40]: Secreted

#### Tissue Location

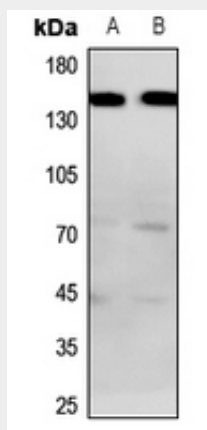
Expressed in brain (at protein level) (PubMed:12074842, PubMed:12507886). Expressed on mononuclear phagocytes and monocyte-derived macrophages in the gastric mucosa (at protein level) (PubMed:24509909). Expressed in normal pancreatic tissue but not in pancreatic tumor tissue (PubMed:11875720). Reduced or no expression is observed in some glioblastomas (PubMed:12507886)

#### Anti-BAI1 Antibody - Protocols

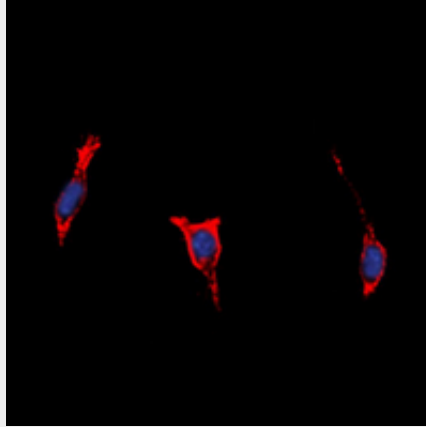
Provided below are standard protocols that you may find useful for product applications.

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

#### Anti-BAI1 Antibody - Images



Western blot analysis of BAI1 expression in HepG2 (A), A375 (B) whole cell lysates.



Immunofluorescent analysis of BAI1 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

#### **Anti-BAI1 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human BAI1. The exact sequence is proprietary.