

Rabbit BAI1 Polyclonal Antibody | anti-BAI1 antibody

BAI1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325527	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

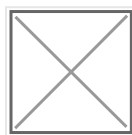
PRODUCT SYNONYMS

BAI1; Polyclonal Antibody; BAI1 Antibody; B830018M07Rik; BAI 1; BAI1_HUMAN; Brain specific angiogenesis inhibitor 1; Brain-specific angiogenesis inhibitor 1; GDAIF; KIAA4089; mKIAA4089; R75078; anti-BAI1 antibody

PRODUCT SPECIFICATIONS

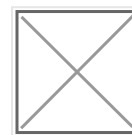
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BAI1 antibody detects endogenous levels of total BAI1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1584
Applicable Applications for anti-BAI1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane. Likely to be concentrated at cell-cell adhesion sites.
Tissue Specificity	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).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from Jurkat cells, using BAI1 antibody.



IF (Immunofluorescence)

AAA325527 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA325527 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from Mouse Myeloma cell, using BAI1 Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-BAI1 antibody

Function: Phosphatidylserine receptor which enhances the engulfment of apoptotic cells (PubMed:24509909). Also mediates the binding and engulfment of Gram-negative bacteria (PubMed:26838550). Stimulates production of reactive oxygen species by macrophages in response to Gram-negative bacteria, resulting in enhanced microbicidal macrophage activity (PubMed:26838550). In the gastric mucosa, required for recognition and engulfment of apoptotic gastric epithelial cells (PubMed:24509909). Promotes myoblast fusion (By similarity). Activates the Rho pathway in a G-protein-dependent manner (PubMed:23782696). 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:11875720).

Subunit Structure: Interacts with ELMO1 and DOCK1 (By similarity). When bound to ELMO1 and DOCK1, acts as a module to promote apoptotic cell engulfment (By similarity). Interacts with MDM2; the interaction results in inhibition of MDM2-mediated ubiquitination and degradation of DLG4/PSD95 (By similarity). Interacts with PARD3 and TIAM1; the interaction is required for correct dendritic. localization of PARD3 and TIAM1 and for dendritic spine formation (PubMed:23595754). Interacts with MAGI1 (PubMed:9647739). Interacts with MAGI3 (PubMed:10748157). Interacts with BAIAP2 (PubMed:10343108). Interacts with PHYHIP (By similarity). Interacts with DLG4 (via PDZ domain) (PubMed:23782696). Vasculostatin-120: Interacts with CD36 (PubMed:19176395). Vasculostatin-120: Interacts with ARRB2 (PubMed:23782696). Interacts with BAIAP3; this interaction is direct (PubMed:9790924).

Post-translational Modifications: Proteolytically cleaved to produce vasculostatin-40 and vasculostatin-120 (PubMed:15782143, PubMed:22333914, PubMed:22330140). Vasculostatin-40 is the major form and is produced through proteolytic cleavage by MMP14 between residues 321 and 329 with cleavage likely to be between Ser-326 and Leu-327 (PubMed:22330140). Ubiquitinated.

Similarity: The TSP type-1 repeats in the extracellular domain mediate binding to phosphatidylserine. They are also required for bacterial recognition and binding to bacterial outer membrane lipopolysaccharide. Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	111118994
NCBI GeneID	575
NCBI Accession #	NP_001693.2
NCBI GenBank Nucleotide #	NM_001702.2
UniProt Accession #	O14514
Molecular Weight	Observed: 174 kD Predicted: 174 kDa
NCBI Official Full Name	adhesion G protein-coupled receptor B1
NCBI Official Synonym Full Names	adhesion G protein-coupled receptor B1
NCBI Official Symbol	ADGRB1
NCBI Official Synonym Symbols	BAI1; GDAIF
NCBI Protein Information	adhesion G protein-coupled receptor B1

UniProt Protein Name	Adhesion G protein-coupled receptor B1
UniProt Gene Name	ADGRB1
UniProt Synonym Gene Names	BAI11 PublicationManual assertion based on opinion iniRef.1; Vstat401 PublicationManual assertion based on opinion iniRef.13; Vstat1201 PublicationManual assertion based on opinion iniRef.11

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bai1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325527>