



BAI-1 Polyclonal Antibody

Catalog No	YP-Ab-03736
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	BAI1
Immunogen	The antiserum was produced against synthesized peptide derived from human BAI1. AA range:691-740
Specificity	BAI-1 Polyclonal Antibody detects endogenous levels of BAI-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	B8318M7Rik;BAI 1;BAI1;BAI1_HUMAN;Brain specific angiogenesis inhibitor 1; Brain-specific angiogenesis inhibitor 1;GDAIF;KIAA489;mKIAA489;R7578;BAI-1
Observed Band	174kD
Calculated Molecular Weight	174kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Cell projection, phagocytic cup . Cell junction, focal adhesion . Cell projection, dendritic spine . Cell junction, synapse, postsynaptic density .; [Vasculostatin-120]: Secreted .; [Vasculostatin-40]: Secreted .
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).



Function

domain: The TSP1 repeats inhibit in vivo angiogenesis in rat cornea induced by BFGF., function: Phosphatidylserine receptor that enhances the engulfment of apoptotic cells. Likely to be a potent inhibitor of angiogenesis in brain and may play a significant role as a mediator of the p53 signal in suppression of glioblastoma. May function in cell adhesion and signal transduction in the brain., induction: By p53., similarity: Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily., similarity: Contains 1 GPS domain., similarity: Contains 5 TSP type-1 domains., subcellular location: Likely to be concentrated at cell-cell adhesion sites., subunit: Interacts with ELMO1 and DOCK1. When bound to ELMO1 and DOCK1, it may act as a module to promote the engulfment (By similarity). Interacts with MAGI1, MAGI3, BAIAP2 and PHYHIP., tissue specificity: Specifically expressed in brain. Reduced or no express

Background

Angiogenesis is controlled by a local balance between stimulators and inhibitors of new vessel growth and is suppressed under normal physiologic conditions. Angiogenesis has been shown to be essential for growth and metastasis of solid tumors. In order to obtain blood supply for their growth, tumor cells are potently angiogenic and attract new vessels as results of increased secretion of inducers and decreased production of endogenous negative regulators. BAI1 contains at least one 'functional' p53-binding site within an intron, and its expression has been shown to be induced by wildtype p53. There are two other brain-specific angiogenesis inhibitor genes, designated BAI2 and BAI3 which along with BAI1 have similar tissue specificities and structures, however only BAI1 is transcriptionally regulated by p53. BAI1 is postulated to be a member of the secretin receptor family,

matters needing attention

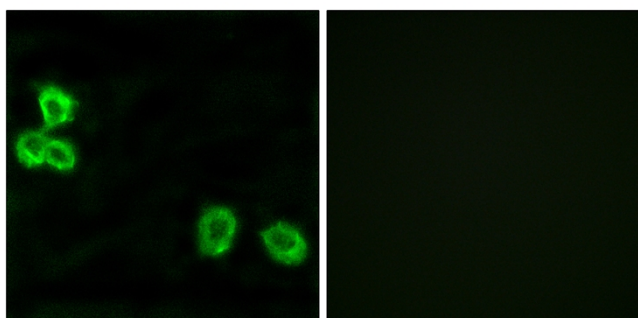
Avoid repeated freezing and thawing!

Usage suggestions

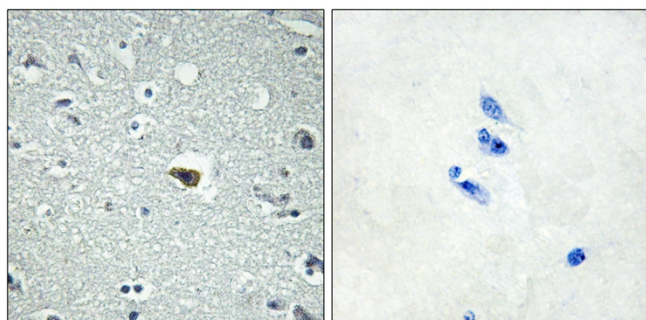
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



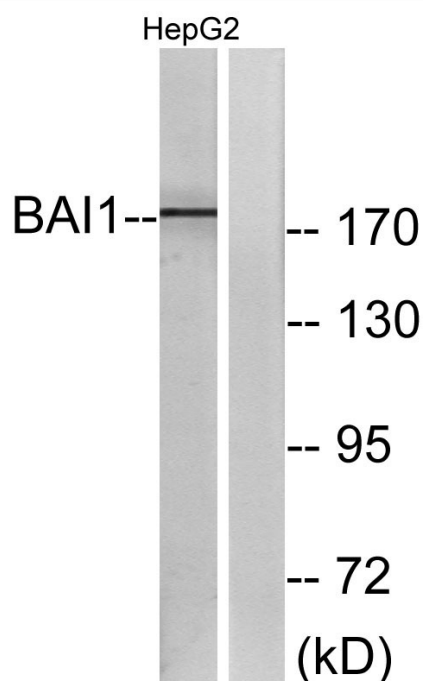
Products Images



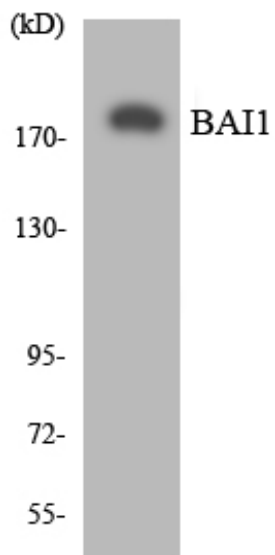
Immunofluorescence analysis of MCF7 cells, using BAI1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using BAI1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using BAI1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVECcells using BAI1 antibody.