


Product datasheet

Anti-BAIAP2 antibody ab105221

2 Images

Overview

<b>Product name</b>	Anti-BAIAP2 antibody
<b>Description</b>	Goat polyclonal to BAIAP2
<b>Host species</b>	Goat
<b>Specificity</b>	ab105221 recognizes BAIAP2 isoform 1.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
<b>Immunogen</b>	Synthetic peptide: C-SGSGTLVSTV , corresponding to C terminal amino acids 512-521 of Human BAIAP2 Isoform 1. <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Human Brain, Cortex; Human Brain lysate

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab105221** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 3 µg/ml. Predicted molecular weight: 61 kDa.
ELISA		1/64000.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

Adapter protein that links membrane-bound small G-proteins to cytoplasmic effector proteins. Necessary for CDC42-mediated reorganization of the actin cytoskeleton and for RAC1-mediated membrane ruffling. Involved in the regulation of the actin cytoskeleton by WASF family members and the Arp2/3 complex. Plays a role in neurite growth. Acts synergetically with ENAH to promote filipodia formation.

### Tissue specificity

Isoform 1 and isoform 4 are expressed almost exclusively in brain. Isoform 4 is barely detectable in placenta, prostate and testis. A short isoform is ubiquitous, with the highest expression in liver, prostate, testis and placenta.

### Sequence similarities

Contains 1 IMD (IRSp53/MIM homology) domain.  
Contains 1 SH3 domain.

### Domain

The IMD domain forms a coiled coil. The isolated domain can induce actin bundling and filopodia formation. In the absence of G-proteins intramolecular interaction between the IMD and the SH3 domain gives rise to an auto-inhibited state of the protein. Interaction of the IMD with RAC1 or CDC42 leads to activation.  
The SH3 domain interacts with ATN1, BAI1, WASF1, WASF2, SHANK1, DIAPH1 and ENAH.

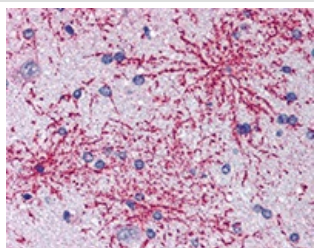
### Post-translational modifications

Phosphorylated on tyrosine residues by INSR in response to insulin treatment.

### Cellular localization

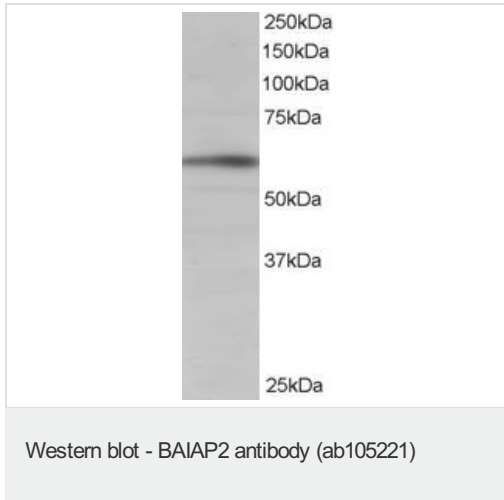
Cytoplasm. Membrane. Cell projection > filopodium. Cell projection > ruffle. Detected throughout the cytoplasm in the absence of specific binding partners. Detected in filopodia and close to membrane ruffles.

## Images



ab105221, at 5 µg/ml, staining BAIAP2 in formalin-fixed, paraffin-embedded Human Brain, Cortex by Immunohistochemistry, followed by biotinylated anti-goat IgG secondary antibody, alkaline phosphatase-streptavidin and chromogen.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - BAIAP2 antibody (ab105221)



Anti-BAIAP2 antibody (ab105221) at 1 µg/ml  
+ Human Brain lysate (in RIPA buffer) at 35 µg

Developed using the ECL technique.

**Predicted band size:** 61 kDa

Primary incubated for 1 hour.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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