

Product Datasheet

BAI1 Antibody - BSA Free NB110-81586

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB110-81586

BAI1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

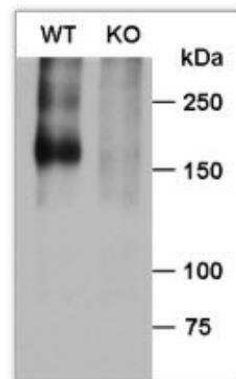
Product Description	
Description	Novus Biologicals Rabbit BAI1 Antibody - BSA Free (NB110-81586) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-BAI1 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	575
Gene Symbol	ADGRB1
Species	Human, Mouse
Immunogen	Synthetic peptide made to a C-terminal portion of the human BAI1 protein (within residues 1500-1584). [Swiss-Prot# O14514]

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot reported in scientific literature, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1 - 2 ug/ml, Immunohistochemistry-Paraffin 1:200

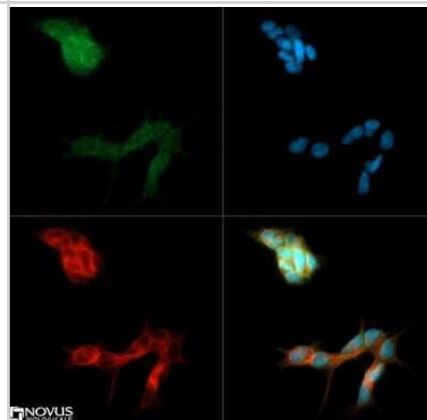


Images

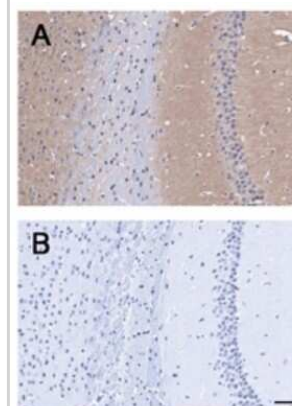
Western Blot: BAI1 Antibody [NB110-81586] - analysis of BAI1 in mouse brain tissue using anti-BAI1 antibody. KO mice was used as negative controls (right lane). Image from verified customer review.



Immunocytochemistry/Immunofluorescence: BAI1 Antibody [NB110-81586] - BAI1 antibody was tested in SH-SY-5Y cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



Immunohistochemistry-Paraffin: BAI1 Antibody [NB110-81586] - A. Staining of mouse brain using NB110-81586. B. Blocking of staining using control peptide, NB110-81586PEP.



Publications

Li A, Huang X, Zhang K et al. Nuclear localization and upregulation of BAI1 in alveolar macrophages during LPS-Induced acute lung injury *Scientific Reports* 2025-07-08 [PMID: 40628822]

Zhang H, Zhu D, Zhang Z et al. EZH2 targeting reduces medulloblastoma growth through epigenetic reactivation of the BAI1/p53 tumor suppressor pathway *Oncogene* 2020-01-30 [PMID: 31582835] (Western Blot, Mouse)

Toutonji A, Krieg C, Borucki DM et al. Mass cytometric analysis of the immune cell landscape after traumatic brain injury elucidates the role of complement and complement receptors in neurologic outcomes *Acta neuropathologica communications* 2023-06-12 [PMID: 37308987] (CyTof, Mouse)

Liu L, Chai L, Ran J et al. BAI1 acts as a tumor suppressor in lung cancer A549 cells by inducing metabolic reprogramming via the SCD1/HMGCR module *Carcinogenesis* 2020-04-07 [PMID: 32255478]

Cao J, Liu X, Yang Y et al. Decylubiquinone suppresses breast cancer growth and metastasis by inhibiting angiogenesis via the ROS/p53/ BAI1 signaling pathway *Angiogenesis* 2020-02-04 [PMID: 32020421] (IF/IHC)

Zhu D, Osuka S, Zhang Z et al. BAI1 Suppresses Medulloblastoma Formation by Protecting p53 from Mdm2-Mediated Degradation *Cancer Cell* 2018-06-11 [PMID: 29894688] (Mouse, Human)

Hochreiter-Hufford AE, Lee CS, Kinchen JM et al. Phosphatidylserine receptor BAI1 and apoptotic cells as new promoters of myoblast fusion. *Nature* 2013-05-09 [PMID: 23615608] (WB, Mouse)



Procedures

Immunohistochemistry-Paraffin Protocol for BAI1 Antibody (NB110-81586)

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer at all times).

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.

Immunocytochemistry/ Immunofluorescence Protocol for BAI1 Antibody (NB110-81586)

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and wash the cells briefly in PBS. Add 10% formalin to the dish and fix at room temperature for 10 minutes.
2. Remove the formalin and wash the cells in PBS.
3. Permeablize the cells with 0.1% Triton X100 or other suitable detergent for 10 min.
4. Remove the permeabilization buffer and wash three times for 10 minutes each in PBS. Be sure to not let the specimen dry out.
5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
7. Remove primary antibody and replace with PBS. Wash three times for 10 minutes each.
8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove secondary antibody and replace with PBS. Wash three times for 10 minutes each.
10. Counter stain DNA with DAPI if required.





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Products Related to NB110-81586

NB110-81586PEP	BA11 Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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