

Product Datasheet

IL-1 beta/IL-1F2 Antibody - BSA Free NBP1-19775

Unit Size: 0.1 mg

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

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NBP1-19775

IL-1 beta/IL-1F2 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 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

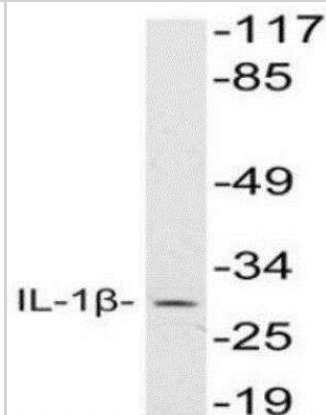
Product Description	
Host	Rabbit
Gene ID	3553
Gene Symbol	IL1B
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 26687274)
Immunogen	A synthetic peptide made to an internal sequence of human IL-1 beta [UniProt P01584].

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500 - 1:1000, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 30225853), Immunohistochemistry-Paraffin 1:50 - 1:200

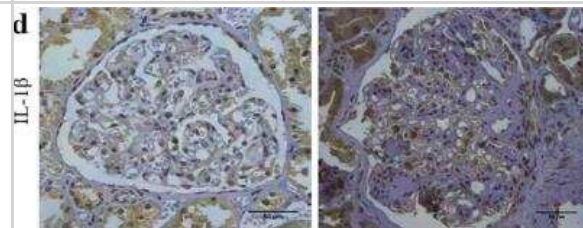


Images

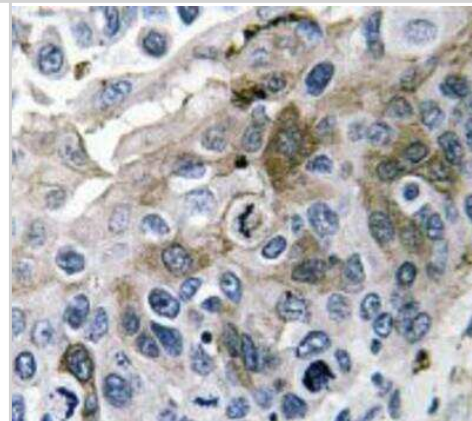
Western Blot: IL-1 beta/IL-1F2 Antibody [NBP1-19775] - Analysis of IL1 beta Antibody in extracts from HeLa cells.



Immunohistochemistry: IL-1 beta/IL-1F2 Antibody - BSA Free [NBP1-19775] - In situ expression of IL-6 in glomerular and tubulointerstitial compartments in patients with diabetic nephropathy DN (right) and control group (left). Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/32723296/](https://pubmed.ncbi.nlm.nih.gov/32723296/)) licensed under a CC-BY license.



Immunohistochemistry: IL-1 beta/IL-1F2 Antibody [NBP1-19775] - Staining in the cytoplasm of villi and in the crypt cells of human lung carcinoma tissue.



Publications

Tauber Z, Cizkova K. The anti-inflammatory role of placental Hofbauer cells is altered in patients with chorioamnionitis: Are CYP2C8 and soluble epoxide hydrolase involved in immunomodulation? *Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub* 2022-09-14 [PMID: 33976432] (Immunohistochemistry)

Gomez-Lopez N, Romero R, Tarca AL et al. Gasdermin D: Evidence of pyroptosis in spontaneous preterm labor with sterile intra-amniotic inflammation or intra-amniotic infection *American Journal of Reproductive Immunology* 2019-12-01 [PMID: 31461796] (Immunocytochemistry/ Immunofluorescence)

Ahmad A, Fauzia E, Kumar M et al. Gelatin-Coated Polycaprolactone Nanoparticle-Mediated Naringenin Delivery Rescue Human Mesenchymal Stem Cells from Oxygen Glucose Deprivation-Induced Inflammatory Stress *ACS Biomater Sci Eng* 2021-01-06 [PMID: 33405831]

Jiang M, Shang Z, Zhang T et al. Study on the role of pyroptosis in bone resorption induced by occlusal trauma with or without periodontitis *Journal of periodontal research* 2022-02-09 [PMID: 35141913]

Cizkova, K, Foltynkova, T Et al. Comparative Analysis of Immunohistochemical Staining Intensity Determined by Light Microscopy, ImageJ and QuPath in Placental Hofbauer Cells. *Acta Histochem Cytochem* 2021-02-25 [PMID: 33731967] (ICC/IF, WB, Human)

AraUjo, L S, Torquato, B G S Et al. Renal expression of cytokines and chemokines in diabetic nephropathy. *BMC Nephrol* 2020-07-28 [PMID: 32723296] (ICC/IF, Human)

Tauber Z, Chroma K, Baranova R, Cizkova K The expression patterns of IL-1beta and IL-10 and their relation to CYP epoxygenases in normal human placenta *Annals of anatomy = Anatomischer Anzeiger : official organ of the Anatomische Gesellschaft* 2021-01-10 [PMID: 33440233] (IHC-P, Human)

Chen H, Wang B, Li G et al. Brain health is independently impaired by E-vaping and high-fat diet *Brain Behav Immun* 2020-11-20 [PMID: 33221488] (WB, Mouse)

Details:
Western blot analysis performed on brain lysates of mice who were exposed to e-vapor and a high-fat diet

Gergin O, Bayram A, Gergin IS et al. Comparison of myotoxic effects of levobupivacaine, bupivacaine and ropivacaine: apoptotic activity and acute effect on pro-inflammatory cytokines *Biotech Histochem.* 2019-02-04 [PMID: 30712387] (IF/IHC, Rat)

Lin C, Chao H, Li Z et al. Omega-3 fatty acids regulate NLRP3 inflammasome activation and prevent behavior deficits after traumatic brain injury *Exp Neurol.* 2017-04-01 [PMID: 28077339] (IF/IHC, Human)

Cengiz O, Baran M, Balcioglu E et al. Use of selenium to ameliorate doxorubicin induced hepatotoxicity by targeting pro-inflammatory cytokines *Biotech Histochem* 2020-05-13 [PMID: 32400214]

Nam JE, Jo SY, Ahn CW, Kim YS Baicalin attenuates Fibrogenic process in human renal proximal tubular cells (HK-2) exposed to diabetic Milieu *Life Sci.* 2020-04-30 [PMID: 32360619] (WB, Human)

More publications at <http://www.novusbio.com/NBP1-19775>

Procedures

Western Blot Protocol for IL1 beta Antibody (NBP1-19775)

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 25 ug of total protein per lane.
 2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
 3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
 4. Rinse the blot.
 5. Block the membrane using standard blocking buffer for at least 1 hour.
 6. Wash the membrane in wash buffer three times for 10 minutes each.
 7. Dilute anti-IL 1 beta primary antibody in blocking buffer and incubate 1 hour at room temperature.
 8. Wash the membrane in wash buffer three times for 10 minutes each.
 9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
 10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
 11. Apply the detection reagent of choice in accordance with the manufacturers instructions.
- Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

Immunohistochemistry-Paraffin protocol for IL-1 beta/IL-1F2 Antibody (NBP1-19775)

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.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution 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 biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.



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Products Related to NBP1-19775

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-19775B	IL-1 beta/IL-1F2 Antibody [Biotin]

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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