

Product Datasheet

5-Lipoxygenase Antibody - BSA Free NB110-58749

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NB110-58749**5-Lipoxygenase Antibody - BSA Free**

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	80 kDa

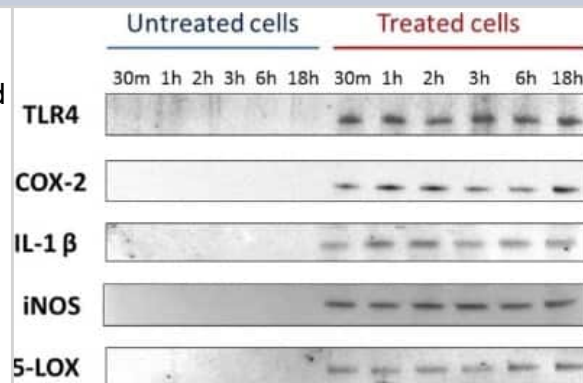
Product Description	
Host	Rabbit
Gene ID	240
Gene Symbol	ALOX5
Species	Human, Mouse, Rat, Bovine, Rabbit
Immunogen	A synthetic peptide made to a C-terminal region within residues 600-674 of human 5-Lipoxygenase. [Swiss-Prot# P09917]

Product Application Details	
Applications	Western Blot, Simple Western
Recommended Dilutions	Western Blot 1:500-1:1000, Simple Western 10 ug/ml
Application Notes	<p>This 5 Lipoxygenase antibody is useful for Western Blot, where a band is seen at approx. 80 kDa. There may be some non-specific bands at non-interfering lower molecular weights.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See Simple Western Antibody Database for Simple Western validation: Tested in Human Lung lysate 0.5 mg/mL, separated by Size, antibody dilution of 10 ug/mL. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> <p>The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</p>

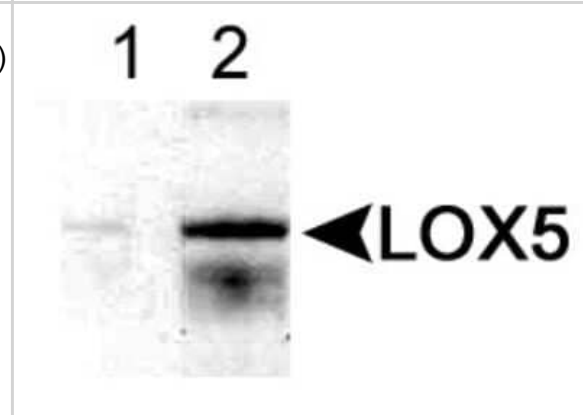


Images

Western Blot: 5-Lipoxygenase Antibody [NB110-58749] - Western blotting data for TLR4, COX-2, IL-1 β , iNOS, 5-Lipoxygenase. Data are representative of three independent experiment. Image collected and cropped by CiteAb from the following publication (<https://www.frontiersin.org/article/10.3389/fvets.2020.00142/full>), licensed under a CC-BY license.



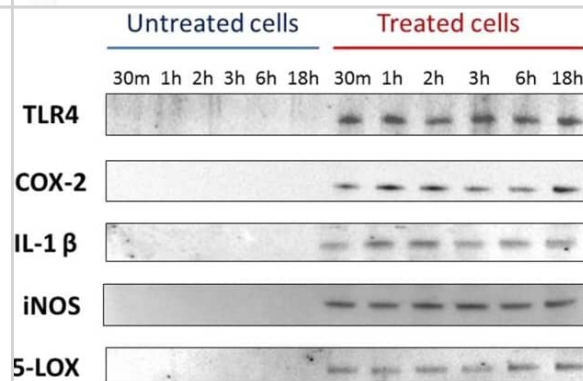
Western Blot: 5-Lipoxygenase Antibody [NB110-58749] - Detection of LOX5 in human peripheral leukocytes using NB110-58749 at 0.5(Lane 1) and 2.0 ug/ml (Lane 2).



Simple Western: 5-Lipoxygenase Antibody [NB110-58749] - Simple Western lane view shows a specific band for 5-Lipoxygenase in 0.5 mg/ml of Human Lung lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. * Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody



Western blotting data for TLR4, COX-2, IL-1 β , iNOS, 5-LOX. Data are representative of three independent experiment.



Publications

Di Federico M, Ancora M, Luciani M et al. Pro-Inflammatory Response of Bovine Polymorphonuclear Cells Induced by *Mycoplasma mycoides* subsp. *mycoides* Front Vet Sci 2020-03-27 [PMID: 32292794] (WB, Bovine)

Procedures

Protocol specific for 5 Lipoxygenase Antibody (NB110-58749)

5-Lipoxygenase Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 38 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH₂O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS, 1 hour at room temperature.
6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-LOX5 primary antibody (NB 110-58749) in blocking buffer and incubate 2 hours at room temperature.
8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG 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 [TBS + 0.1% Tween] 3 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 (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Products Related to NB110-58749

NB820-59174	Blood Leukocyte Whole Cell Lysate
NB110-58749PEP	5-Lipoxygenase Antibody Blocking Peptide
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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