

Product Datasheet

Ly-6B.2 Antibody (7/4) [Alexa Fluor® 488] NBP2-13077AF488

Unit Size: 0.125 ml

Store at 4C in the dark.

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NBP2-13077AF488

Ly-6B.2 Antibody (7/4) [Alexa Fluor® 488]

Product Information	
Unit Size	0.125 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	7/4
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Conjugate	Alexa Fluor 488
Purity	Protein G purified
Buffer	50mM Sodium Borate
Product Description	
Host	Rat
Species	Mouse
Reactivity Notes	Use in Mouse reported in scientific literature (PMID: 33676948). Immunogen displays the following percentage of sequence identity for non-tested species: Rat (84%). Reactivity reported in scientific literature (PMID: 23184418).
Specificity/Sensitivity	Recognizes Ly6B.2, a polymorphic 40 kDa antigen expressed by polymorphonuclear cells, but absent on resident tissue macrophages. Strains positive for 7/4:129J; AKR; C57BL/6; C57BL/10; C58; DBA/2; NZB; NZW; SJL; MFI; Swiss (PO) Strains Negative/Weak for 7/4:A2G; A/Sn; ASW; BALB/c; C3H/HEH; CBA.T6T6.
Immunogen	Cultured bone marrow cells
Notes	Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com . This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin



Recommended Dilutions	Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
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Publications

Sundar IK, Rashid K, Sellix MT, Rahman I. The nuclear receptor and clock gene REV-ERBa regulates cigarette smoke-induced lung inflammation. *Biochem. Biophys. Res. Commun.* 2017-12-02 [PMID: 28974420]

M Evrard, IWH Kwok, SZ Chong, KWW Teng, E Becht, J Chen, JL Sieow, HL Penny, GC Ching, S Devi, JM Adrover, JLY Li, KH Liong, L Tan, Z Poon, S Foo, JW Chua, IH Su, K Balabanian, F Bachelierie, SK Biswas, A Larbi, WYK Hwang, V Madan, HP Koeffler, SC Wong, EW Newell, A Hidalgo, F Ginhoux, LG Ng Developmental Analysis of Bone Marrow Neutrophils Reveals Populations Specialized in Expansion, Trafficking, and Effector Functions *Immunity*, 2018-02-20;48(2):364-379.e8. 2018-02-20 [PMID: 29466759]

Qixin Wang, Isaac K. Sundar, Joseph H. Lucas, Thivanka Muthumalage, Irfan Rahman Molecular clock REV-ERB α regulates cigarette smoke-induced pulmonary inflammation and epithelial-mesenchymal transition *JCI Insight* 2021-06-22 [PMID: 34014841]

Sharma S, Wang Q, Muthumalage T, Rahman I. Epithelial Ablation of Miro1/Rhot1 GTPase Augments Lung Inflammation by Cigarette Smoke *Pathophysiology* 2021-11-26 [PMID: 35366248] (Flow Cytometry)

Wang Q, Sundar I, Li D et al. E-cigarette-Induced Pulmonary Inflammation and Dysregulated Repair are Mediated by nAChR $\alpha 7$ Receptor: Role of nAChR $\alpha 7$ in ACE2 Covid-19 receptor regulation *Research Square* 2022-11-07 [PMID: 32702718] (Flow Cytometry)

Wang Q, Khan N A et al Dysregulated repair and inflammatory responses by e-cigarette-derived inhaled nicotine and humectant propylene glycol in a sex-dependent manner in mouse lung *FASEB Bioadv* 2019-12-12 [PMID: 31825014] (FLOW, FLOW, Mouse)

Details:

Citation using the Alexa Fluor 488 version of this antibody.

Wang Q, Sundar IK, Li D et al. E-cigarette-induced pulmonary inflammation and dysregulated repair are mediated by nAChR $\alpha 7$ receptor: role of nAChR $\alpha 7$ in SARS-CoV-2 Covid-19 ACE2 receptor regulation *Respir. Res.* 2020-06-18 [PMID: 32552811] (Mouse)

Details:

Citation using the Alexa Fluor 488 format of this antibody.

Rashid K, Sundar IK, Gerloff J et al. Lung cellular senescence is independent of aging in a mouse model of COPD/emphysema. *Sci Rep* 2018-06-13 [PMID: 29899396] (FLOW, Mouse)

Details:

This citation used the Alexa Fluor 488 version of this antibody.

Sundar IK, Rashid K, Gerloff J et al. Genetic ablation of histone deacetylase 2 leads to lung cellular senescence and lymphoid follicle formation in COPD/emphysema. *FASEB J* 2018-08-09 [PMID: 29630406] (Mouse)

Details:

This citation used the Alexa Fluor 488 version of this antibody.

Sundar IK, Rashid K, Gerloff J, Li D. Genetic Ablation of p16(Ink4a) Does Not Protect Against Cellular Senescence in Mouse Models of COPD/Emphysema. *Am. J. Respir. Cell Mol. Biol.* 2018-02-15 [PMID: 29447461] (Mouse)

Details:

This citation used the Alexa Fluor 488 form of this antibody





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Products Related to NBP2-13077AF488

IC006G	Rat IgG2a Isotype Control (54447) [Alexa Fluor® 488]
NBP2-13077AF647	Ly-6B.2 Antibody (7/4) [Alexa Fluor® 647]

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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