

Product Datasheet

CD117/c-kit Antibody (ACK2) - BSA Free NBP1-43359-0.1mg

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NBP1-43359-0.1mg

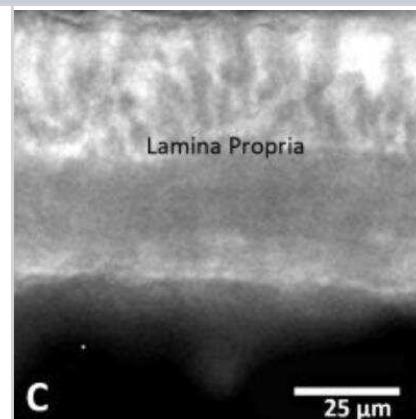
CD117/c-kit Antibody (ACK2) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	ACK2
Preservative	0.09% Sodium Azide
Isotype	IgG2b Kappa
Purity	Protein A or G purified
Buffer	PBS (pH 7.2)
Product Description	
Host	Rat
Gene ID	3815
Gene Symbol	KIT
Species	Human, Mouse, Guinea Pig
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 23967247). Guinea Pig reactivity reported in scientific literature (PMID: 21654812)
Marker	Hematopoietic Stem Cell Marker
Specificity/Sensitivity	The ACK2 monoclonal antibody reacts with mouse CD117, also known as c-Kit receptor, Steel factor receptor and stem cell factor receptor.
Immunogen	Mouse CD117
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Immunohistochemistry Whole-Mount
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry < 0.125 ug/10 ⁶ cells, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500, Immunohistochemistry Whole-Mount
Application Notes	The ACK2 antibody has been tested by flow cytometric analysis of mouse bone marrow cell suspensions. This can be used at less than or equal to 0.125 ug per test. Cell number should be determined empirically but can range from 10 ⁵ to 10 ⁸ cells/test. Use in Immunohistochemistry-Whole mount reported in scientific literature (PMID 26680736). Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 24161026).

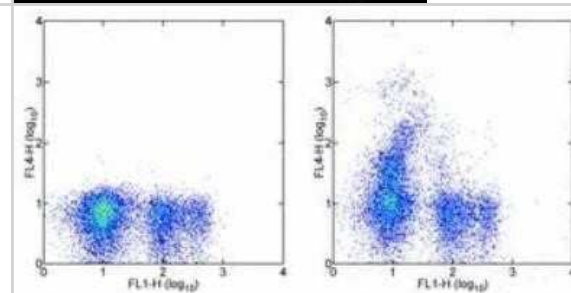


Images

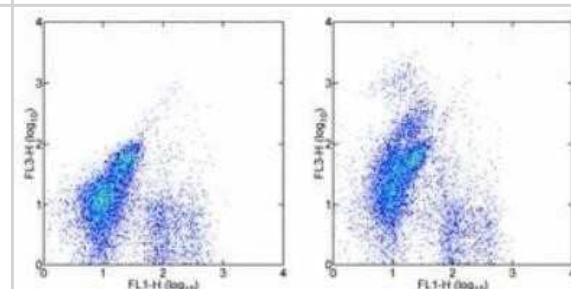
Immunohistochemistry Whole-Mount: CD117/c-kit Antibody (ACK2) [NBP1-43359] - Fluorescent images from representative ileum slices show putative neuronal cells and interstitial cells of Cajal. Immunoreactive c-Kit was localized by using the ACK2 antibody in live tissue after 48 h ex vivo. Scale bars are 25 μ m. Image collected and cropped by CiteAb from the following publication (<https://www.physiology.org/doi/10.1152/ajpgi.00299.2015>) licensed under a CC-BY license.



Flow Cytometry: CD117/c-kit Antibody (ACK2) [NBP1-43359] - Analysis of Allophycocyanin conjugate of NBP1-43359. Staining of C57BL/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC and 0.03 μ g of Rat IgG2b kappa Isotype Control APC (left) or 0.03 μ g of Anti-Mouse CD117 (c-Kit) APC (right). Total viable c



Flow Cytometry: CD117/c-kit Antibody (ACK2) [NBP1-43359] - Analysis of PE/Cy5 conjugate of NBP1-43359. Staining of C57Bl/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC and 0.03 μ g of Rat IgG2b Isotype Control PE-Cy5 (left) or 0.03 μ g of Anti-Mouse CD117 (c-Kit) PE-Cy5 (right). Total viable cells were



Publications

H Langhorst, R Jüttner, D Groneberg, A Mohtashamd, L Pelz, B Purfürst, KM Schmidt-Ot, A Friebe, FG Rathjen The IgCAM CLMP is required for intestinal and ureteral smooth muscle contraction by regulating Connexin43 and 45 expression in mice *Dis Model Mech*, 2018-02-22;0(0):. 2018-02-22 [PMID: 29361518]

EI-Naseery NI, Elewa YHA, El-Behery EI, Dessouky AA Human umbilical cord blood-derived mesenchymal stem cells restored hematopoiesis by improving radiation induced bone marrow niche remodeling in rats *Annals of anatomy = Anatomischer Anzeiger : official organ of the Anatomische Gesellschaft* 2023-07-15 [PMID: 37460043] (IHC-P, Rat)

Details:

1:1000 dilution

Takematsu E, Massidda M, Auster J et al. Transmembrane stem cell factor protein therapeutics enhance revascularization in ischemia without mast cell activation *Nature communications* 2022-05-06 [PMID: 35523773] (ICC/IF, Mouse)

Schwerdtfeger LA, Tobet SA Sex differences in anatomic plasticity of gut neuronal-mast cell interactions *Physiological reports* 2021-10-01 [PMID: 34605201] (IF/IHC, Mouse)

Gude NA, Firouzi F, Broughton KM et al. Cardiac c-Kit Biology Revealed by Inducible Transgenesis. *Circ. Res.* 2018-04-10 [PMID: 29636378] (Human)

Meyer S, Maufort JP, Nie J et al. Development of an Efficient Targeted Cell-SELEX Procedure for DNA Aptamer Reagents *PLoS One* 2013-08-23 [PMID: 23967247] (FLOW, Human)

Fu W, Song B, Li W et al. Ultrastructural features and possible functional role of kit-positive interstitial cells in the guinea pig corpus cavernosum *Int J Impot Res* 2011-06-10 [PMID: 21654812] (FLOW, Guinea Pig)

Schwerdtfeger LA, Ryan EP, Tobet SA. An Organotypic Slice Model For Ex Vivo Study of Neural, Immune and Microbial Interactions of Mouse Intestine. *Am. J. Physiol. Gastrointest. Liver Physiol.* 2015-12-17 [PMID: 26680736] (IHC-WhMt, Mouse)

Zhang L, Tang J, Haines CJ et al. c-kit expression profile and regulatory factors during spermatogonial stem cell differentiation. *BMC Dev Biol.* 2013-10-27 [PMID: 24161026] (ICC/IF, WB, Human)





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Products Related to NBP1-43359-0.1mg

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NBP1-75398	Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed)
NBP1-43323-0.5mg	Rat IgG2b Kappa Light Chain Isotype Control (149/10H5)
NBP2-52974PEP	CD117/c-kit Recombinant Protein Antigen

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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