

Product Datasheet

CXCR4 Antibody - Azide Free

NBP2-24862

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-24862

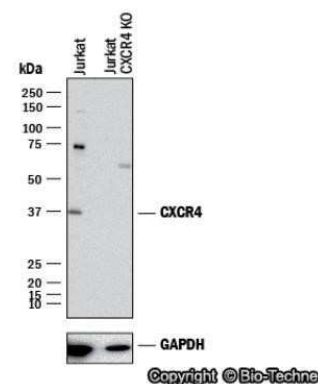
CXCR4 Antibody - Azide Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein G purified
Buffer	0.2 ml sterile PBS
Product Description	
Host	Rabbit
Gene ID	7852
Gene Symbol	CXCR4
Species	Human, Mouse, Rat, Sheep
Immunogen	Rabbit anti-CXCR4 polyclonal antibody was raised against a peptide corresponding to amino acids 328-338 of human CXCR4.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500, Knockout Validated, Knockdown Validated
Application Notes	In HeLa, a 45 kDa band is observed.

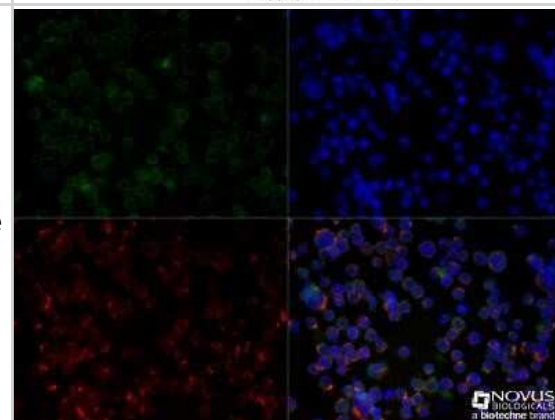


Images

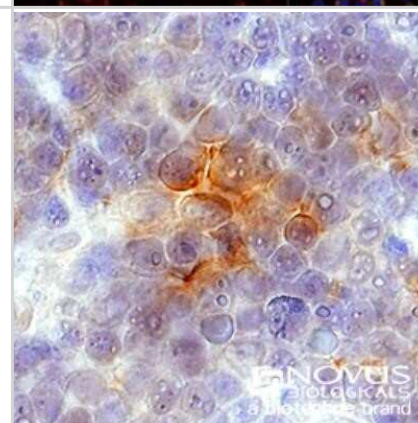
Western Blot: CXCR4 Antibody - Azide Free [NBP2-24862] - Western blot shows lysates of Jurkat human T lymphocyte parental cell line and CXCR4 knockout (KO) Jurkat cell line. PVDF membrane was probed with 1 ug/ml of Rabbit Anti-Human CXCR4 Polyclonal Antibody (Catalog # NB100-56437) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for CXCR4 at approximately 38 kDa (as indicated) in the parental Jurkat cell line, but is not detectable in the knockout Jurkat cell line. This experiment was conducted under reducing conditions. Image using the standard format of this product.



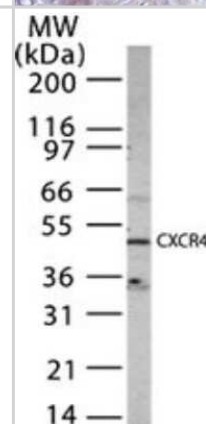
Immunocytochemistry/Immunofluorescence: CXCR4 Antibody - Azide Free [NBP2-24862] - Jurkat cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-CXCR4 (NB100-56437) at a 1:25 dilution for 1 hour at room temperature and detected with an anti-rabbit DyLight 488 (Green) at a 1:500 dilution. Alpha tubulin was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse DyLight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image using the standard format of this product.



Immunohistochemistry: CXCR4 Antibody - Azide Free [NBP2-24862] - CXCR4 was detected in immersion sections of human tonsil using rabbit anti-human antibody (Catalog # NB100-56437) at 1:300 dilution overnight at 4C. Tissue was stained using the VisuCyte anti-rabbit HRP polymer detection reagent with DAB chromogen (brown) and counterstained with hematoxylin (blue). Image using the standard format of this product.



Western Blot: CXCR4 Antibody - Azide Free [NBP2-24862] - Analysis of 15 ug of whole cell lysate from HeLa cells with anti-CXCR4 at 1 ug/ml.



Publications

Zagzag D, Krishnamachary B, Yee H et al. Stromal cell-derived factor-1alpha and CXCR4 expression in hemangioblastoma and clear cell-renal cell carcinoma: von Hippel-Lindau loss-of-function induces expression of a ligand and its receptor. *Cancer Res* 2005-07-15 [PMID: 16024619] (WB, IHC-P)

Zagzag D, Esencay M, Mendez O et al. Hypoxia- and vascular endothelial growth factor-induced stromal cell-derived factor-1alpha/CXCR4 expression in glioblastomas: one plausible explanation of Scherer's structures. *Am J Pathol.* 2008-08-01 [PMID: 18599607]

Details:

IF (human glioma cell lines LN229, LN308, and U87), Fig. 3B; WB (human glioma cell lines LN229, LN308, and U87), Fig. 3A. Inhibitor of differentiation (Id) genes are expressed in the steroidogenic cells of the ovine ovary and are differentially regulated

Hogg K, Etherington SL, Young JM et al. Inhibitor of differentiation (Id) genes are expressed in the steroidogenic cells of the ovine ovary and are differentially regulated by members of the transforming growth factor-beta family. *Endocrinology* [PMID: 20032053]

Details:

Used the Azide Free form of this antibody.

Zagzag D, Lukyanov Y, Lan L et al. Hypoxia-inducible factor 1 and VEGF upregulate CXCR4 in glioblastoma: implications for angiogenesis and glioma cell invasion. *Lab Invest.* 2006-12-01 [PMID: 17075581] (WB)

Details:

WB: Figs 2B, 3A and C, 4B.

Ma YH, Mentlein R, Knerlich F et al. Expression of stem cell markers in human astrocytomas of different WHO grades. *J Neurooncol.* 2008-01-01 [PMID: 17611714] (IHC-P, Human)

Details:

IHC (paraffin), human astrocytoma tissues, Fig. 4.





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Products Related to NBP2-24862

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB100-74396PEP	CXCR4 Antibody Blocking Peptide

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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