

Product Datasheet

DARC Antibody NB100-2421

Unit Size: 0.1 mg

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

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NB100-2421**DARC Antibody**

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	36 kDa

Product Description	
Description	Novus Biologicals Goat DARC Antibody (NB100-2421) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-DARC Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	2532
Gene Symbol	ACKR1
Species	Human
Specificity/Sensitivity	This antibody is expected to recognize both reported isoforms (NP_001116423.1; NP_002027.2).
Immunogen	Peptide with sequence HRAELSPSTENSSQLDFED-C corresponding to N-Terminus according to NP_001116423.1, NP_002027.2.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 0.3-1 ug/ml, Flow Cytometry 1:1000, Immunohistochemistry 3 ug/ml, Immunohistochemistry-Paraffin 3 ug/ml, Peptide ELISA detection limit 1:16000
Application Notes	WB: Approx 37kDa band observed in Human Kidney and Liver lysates (calculated MW of 35.6kDa according to NP_002027.2). IHC-P: In paraffin embedded human kidney stains epithelial cells of renal tubules and endothelial cells of vessels. The granular staining is compatible with the endoplasmic reticulum association of the protein. This antibody has also been successfully used on Human Lung showing endothelial staining. Flow cytometry Analysis of HEK293 cells. A customer has reported successful staining of HEK293S-TetR transfected with DARC receptor at a dilution of 1/1000.

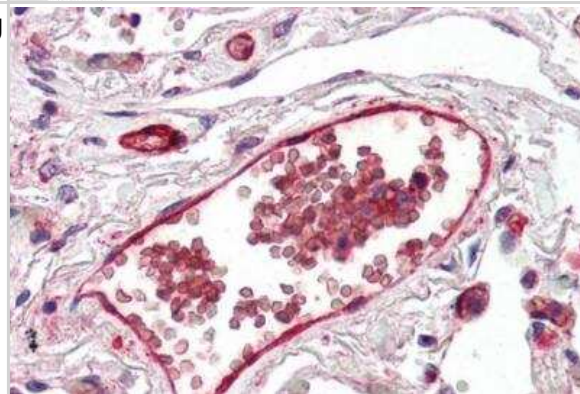


Images

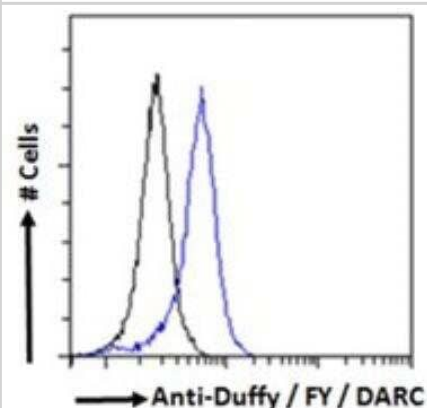
Western Blot: DARC Antibody [NB100-2421] - DARC (0.3ug/ml) staining of Human Liver lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

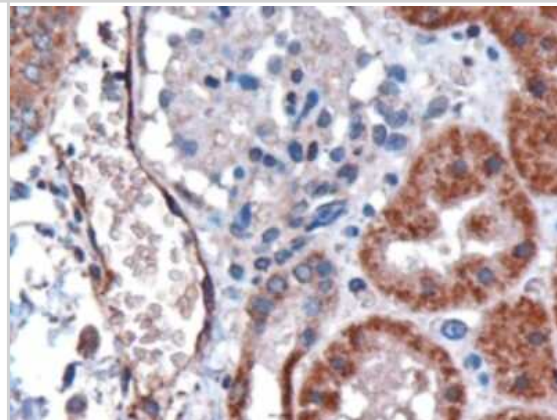
Immunohistochemistry-Paraffin: DARC Antibody [NB100-2421] - Staining of paraffin embedded Human Lung. Microwaved antigen retrieval with citrate buffer Ph 6, AP-staining.



Flow Cytometry: DARC Antibody [NB100-2421] - analysis of paraformaldehyde fixed HEK293 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (0.4ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunohistochemistry-Paraffin: DARC Antibody [NB100-2421] - DARC (3ug/ml) staining of paraffin embedded human kidney. Microwaved antigen retrieval with citrate buffer pH 6, HRP-staining.



Publications

Raslan, AA;Pham, TX;Lee, J;Kontodimas, K;Tilston-Lunel, A;Schmottlach, J;Hong, J;Dinc, T;Bujor, AM;Caporarello, N;Thiriot, A;von Andrian, UH;Huang, SK;Nicosia, RF;Trojanowska, M;Varelas, X;Ligresti, G; Lung injury-induced activated endothelial cell states persist in aging-associated progressive fibrosis Nature communications 2024-06-27 [PMID: 38937456]

Liu S, Li B, Liu N et al. Multi-omics analysis of human tendon adhesion reveals ACKR1 migrates macrophages involve in endogenous regeneration Research Square 2023-10-30 (IHC, FLOW, Human)

Raslan AA, Pham TX, Lee J et al. Single Cell Transcriptomics of Fibrotic Lungs Unveils Aging-associated Alterations in Endothelial and Epithelial Cell Regeneration bioRxiv : the preprint server for biology 2023-01-20 [PMID: 36712020] (IHC-P, FLOW, Human)

Details:

Dilution used in IHC-P 1:200, Flow 1:20

He Y, Kim J, Tacconi C et al. Mediators of capillary-to-venule conversion in the chronic inflammatory skin disease psoriasis The Journal of investigative dermatology 2022-06-28 [PMID: 35777499]

He Y, Tacconi C, Dieterich LC et al. Novel Blood Vascular Endothelial Subtype-Specific Markers in Human Skin Unearthed by Single-Cell Transcriptomic Profiling Cells [PMID: 35406678] (IHC-Fr, Human)

Jenkins B D, Martini R N et al. Atypical Chemokine Receptor 1 (DARC/ACKR1) in Breast Tumors Is Associated with Survival, Circulating Chemokines, Tumor-Infiltrating Immune Cells, and African Ancestry. Cancer Epidemiol Biomarkers Prev 2019-01-04 [PMID: 30944146] (IF/IHC, ICC/IF, Human)

Hernandez-Aguilera A, Fibla M, Cabre N et al. Chemokine (C-C motif) ligand 2 and coronary artery disease: Tissue expression of functional and atypical receptors Cytokine 2019-11-15 [PMID: 31739217] (IHC-P, Human)

Davis MB, Walens A, Hire R et al. Distinct Transcript Isoforms of the Atypical Chemokine Receptor 1 (ACKR1)/Duffy Antigen Receptor for Chemokines (DARC) Gene Are Expressed in Lymphoblasts and Altered Isoform Levels Are Associated with Genetic Ancestry and the Duffy-Null Allele. PLoS One 2015-01-01 [PMID: 26473357] (IF/IHC)

Yu KD, Wang X, Yang C et al. Host genotype and tumor phenotype of chemokine decoy receptors integrally affect breast cancer relapse. Oncotarget 2015-09-22 [PMID: 26314842]

Bruhl H, Vielhauer V, Weiss M et al. Expression of DARC, CXCR3 and CCR5 in giant cell arteritis. Rheumatology (Oxford) 2005-03-01 [PMID: 15572394]

Zeng XH, Ou ZL, Yu KD et al. Absence of multiple atypical chemokine binders (ACBs) and the presence of VEGF and MMP-9 predict axillary lymph node metastasis in early breast carcinomas Med. Oncol. 2014-09-01 [PMID: 25097078]

Zeng XH, Ou ZL, Yu KD, Feng LY, Yin WJ, Li J, Shen ZZ, Shao ZM. Coexpression of atypical chemokine binders (ACBs) in breast cancer predicts better outcomes. Breast Cancer Res Treat;125(3):715-27. 2011-02-01 [PMID: 20369284] (IF/IHC, Human)





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Products Related to NB100-2421

NB820-59232	Human Liver Whole Tissue Lysate (Adult Whole Normal)
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat 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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