

Product Datasheet

EpCAM/TROP1 Antibody (AUA1) - BSA Free NB600-1182

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB600-1182**EpCAM/TROP1 Antibody (AUA1) - BSA Free**

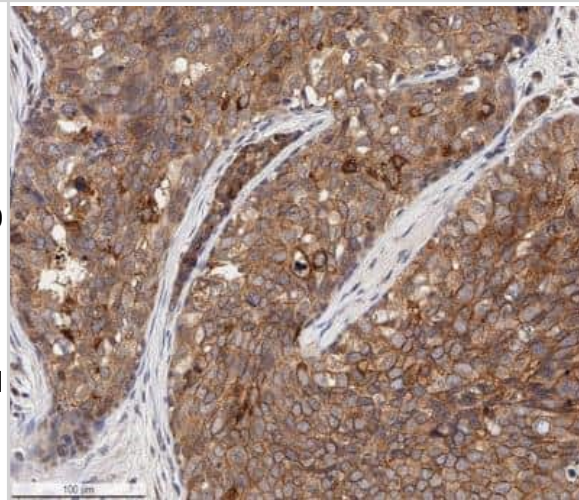
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	AUA1
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	35 kDa

Product Description	
Description	Novus Biologicals Mouse EpCAM/TROP1 Antibody (AUA1) - BSA Free (NB600-1182) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-EpCAM/TROP1 Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	4072
Gene Symbol	EPCAM
Species	Human
Immunogen	LoVo cell line preparation (Human).

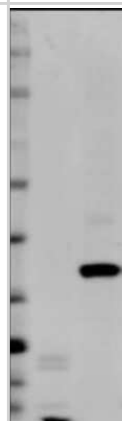
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, CyTOF-ready
Recommended Dilutions	Western Blot 1:500, Flow Cytometry 1 ug per million cells, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500. Use reported in scientific literature (PMID 21763624), Immunohistochemistry-Paraffin 1:10-1:500, CyTOF-ready
Application Notes	This antibody is CyTOF ready. Flow Cytometry reported by Alvarez et al - Conference on Retroviruses and Opportunistic Infections - CROI 2014 (Abstract: The NCOR2-Nurr1-CoREST Transrepression Axis Impairs HIV Reactivation in Latently Infected Microglial Cells)

Images

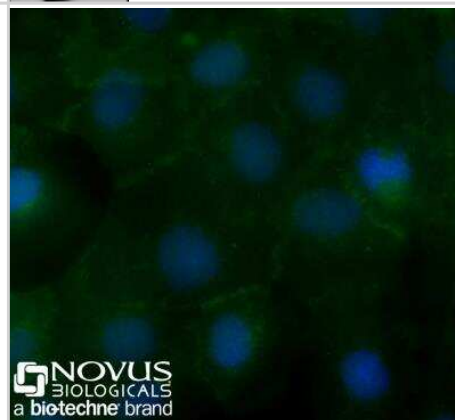
Immunohistochemistry-Paraffin: EpCAM/TROP1 Antibody (AUA1) [NB600-1182] - Analysis of a FFPE human breast carcinoma tissue section using 1:100 dilution of EpCAM/TROP1 antibody (clone AUA1) on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) with 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching using peroxide block. The sections were incubated with primary antibody for 30 minutes. Bond Polymer Refine Detection (Leica Biosystems) and DAB were used for signal detection which followed counterstaining with hematoxylin. Whole slide scanning and capturing of representative images (20X) were performed using Aperio AT2 (Leica Biosystems). This EpCAM antibody generated an expected immunostaining of EpCAM (CD326) protein in the membranes of the cancer cells and the inter-cellular spaces. The tumor stroma and the stromal cells did not show EpCAM immunopositivity.



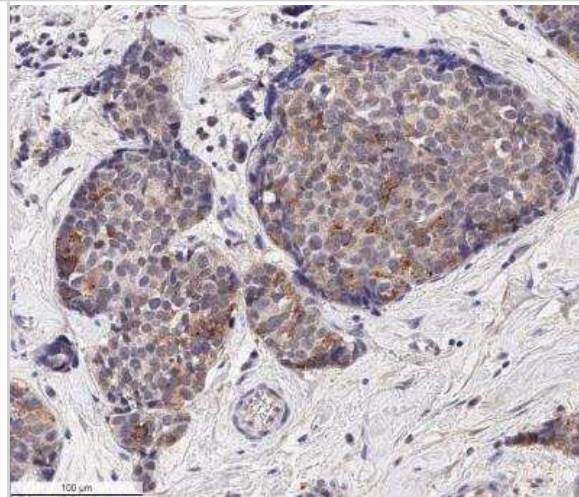
Western Blot: EpCAM/TROP1 Antibody (AUA1) [NB600-1182] - Detection of EpCAM/CD326 in two Human mammary tumor cell lines, MDA-MB-231 (mesenchyme-like) and MCF-7 (epithelium-like). Dilution: 1:500 in PBS with 5% BSA. Secondary Ab: anti-Mouse IgG 1:5,000. This image was submitted via customer Review.



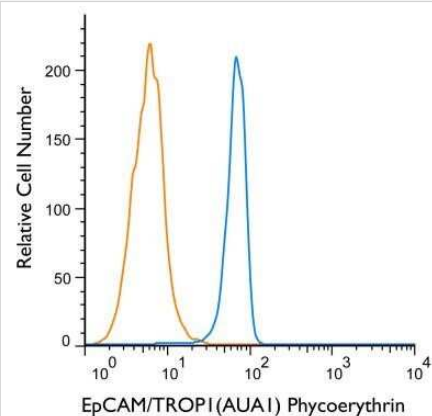
Immunocytochemistry/Immunofluorescence: EpCAM/TROP1 Antibody (AUA1) [NB600-1182] - A431 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-EpCAM/TROP1 (AUA1) conjugated to Alexa Fluor 488 [NB600-1182AF488] at 10ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (blue). Cells were imaged using a 40X objective.



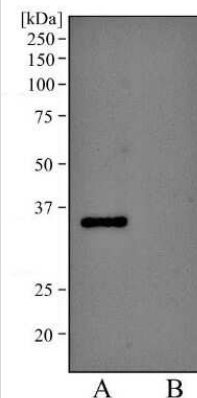
Immunohistochemistry-Paraffin: EpCAM/TROP1 Antibody (AUA1) [NB600-1182] - Analysis of a FFPE human breast carcinoma tissue with 1:500 dilution of EpCAM/TROP1 antibody (clone AUA1) on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) with 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching using peroxide block. The sections were incubated with primary antibody for 30 minutes. Bond Polymer Refine Detection (Leica Biosystems) and DAB were used for signal detection which followed counterstaining with hematoxylin. Whole slide scanning and capturing of representative images (20X) were performed using Aperio AT2 (Leica Biosystems). The staining was primarily localized to the membranes and inter-cellular spaces of the cancer cells. Staining intensity for 1:500 dilution was lower than what was seen in sections tested with 1:100 dilution. Staining was performed by Histowiz.



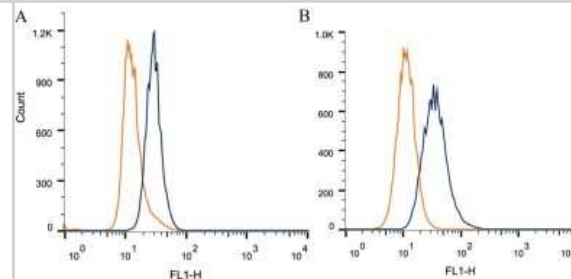
Flow Cytometry: EpCAM/TROP1 Antibody (AUA1) [NB600-1182] - Using the PE direct conjugate A cell surface stain was performed on HT-29 cells with EpCAM (AUA1) antibody NB600-1182PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to phycoerythrin.



Western Blot: EpCAM/TROP1 Antibody (AUA1) [NB600-1182] - Analysis of A431 lysate (A) and Hek293 lysate (B) using EpCAM/CD326 antibody (AUA1) at 2 ug/ml. Non-reduced lysate was used in each lane.



Flow Cytometry: EpCAM/TROP1 Antibody (AUA1) [NB600-1182] - Intracellular flow cytometric staining of 1 x 10⁶ CHO (A) and HeLa (B) cells using EpCAM/CD326 antibody (blue) and matched Isotype control (orange). An antibody concentration of 1 ug/1x10⁶ cells was used.



Publications

Sherif, O;Khelwatty, SA;Bagwan, I;Seddon, AM;Dalglish, A;Mudan, S;Modjtahedi, H; Expression of EGFRvIII and its co-expression with wild-type EGFR, or putative cancer stem cell biomarkers CD44 or EpCAM are associated with poorer prognosis in patients with hepatocellular carcinoma *Oncology reports* 2024-12-01 [PMID: 39450530]

Titto Augustine, Peter John, Tyler Friedman, Jeeshan Jiffry, Hillary Guzik, Rifat Mannan, Riya Gupta, Catherine Delano, John M. Mariadason, Xingxing Zang, Radhashree Maitra, Sanjay Goel Potentiating effect of reovirus on immune checkpoint inhibition in microsatellite stable colorectal cancer *Frontiers in Oncology* 2022-10-25 [PMID: 36387154]

Fan H, Atiya HI, Wang Y Et al. Epigenomic Reprogramming toward Mesenchymal-Epithelial Transition in Ovarian-Cancer-Associated Mesenchymal Stem Cells Drives Metastasis *Cell Rep* 2020-12-09 [PMID: 33296650]

Details:

Citation using the Alexa Fluor 405 version of this antibody.

Chang ZM, Wang Z, Shao D et al. Shape Engineering Boosts Magnetic Mesoporous Silica Nanoparticle-Based Isolation and Detection of Circulating Tumor Cells. *ACS Appl Mater Interfaces* 2018-03-20 [PMID: 29468874] (FLOW)

Details:

This citation used the PE version of this antibody.

EI-Hariry I, Pignatelli M, Lemoine NR et al. FGF-1 and FGF-2 modulate the E-cadherin/catenin system in pancreatic adenocarcinoma cell lines. *Br J Cancer*. 2001-06-15 [PMID: 11401320]

Aleksic T, Chitnis MM, Perestenko OV et al. Type 1 insulin-like growth factor receptor translocates to the nucleus of human tumor cells. *Cancer Res*. 2010-08-15 [PMID: 20710042] (WB, Human)

Jordinson M, EI-Hariry I, Calnan D et al. Vicia faba agglutinin, the lectin present in broad beans, stimulates differentiation of undifferentiated colon cancer cells. *Gut*. 1999-05-01 [PMID: 10205210] (WB, Human)

Anagnostaki E, Skaarlos D, Tamvakis N et al. Immunohistochemical and immunocytochemical study of bladder carcinomas using the epithelium-specific, tumour-associated monoclonal antibodies HMFG1 and AUA1. *Br J Cancer Suppl*. 1990-07-01 [PMID: 2200496] (ICC/IF, IF/IHC, Human)

Ntouroupi TG, Ashraf SQ, Mcgregor SB et al. Detection of circulating tumour cells in peripheral blood with an automated scanning fluorescence microscope. *Br J Cancer*. 2008-09-02 [PMID: 18682708] (ICC/IF, Human)

Kocjan G, Sweeney E, Miller KD, Bobrow L et al. AUA1: new immunocytochemical marker for detecting epithelial cells in body cavity fluids. *J Clin Pathol*. 1992-04-01 [PMID: 1577978] (ICC/IF, Human)

Conaghan P, Ashraf S, Tytherleigh M et al. Targeted killing of colorectal cancer cell lines by a humanised IgG1 monoclonal antibody that binds to membrane-bound carcinoembryonic antigen. *Br J Cancer*. 2008-04-08 [PMID: 18349843] (FLOW, Human)

Albarenque SM, Zwacka RM, Mohr A. Both human and mouse mesenchymal stem cells promote breast cancer metastasis *Stem Cell Res* 2011-09-01 [PMID: 21763624]





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Products Related to NB600-1182

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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