# 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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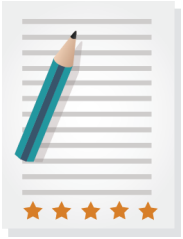
www.novusbio.com/NB600-1182

Updated 10/23/2024 v.20.1





# NB600-1182

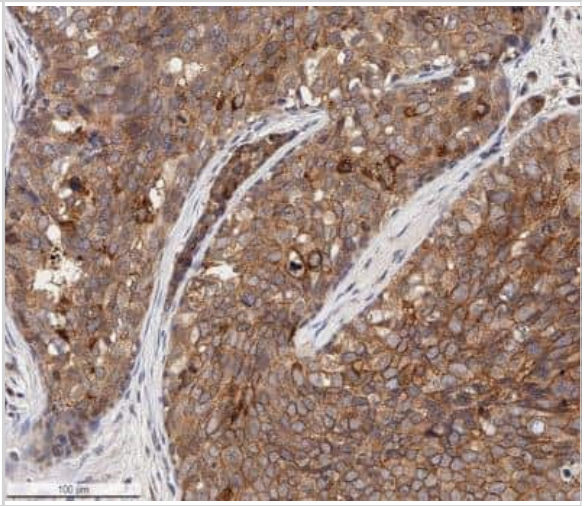
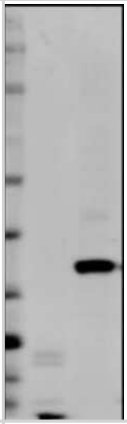
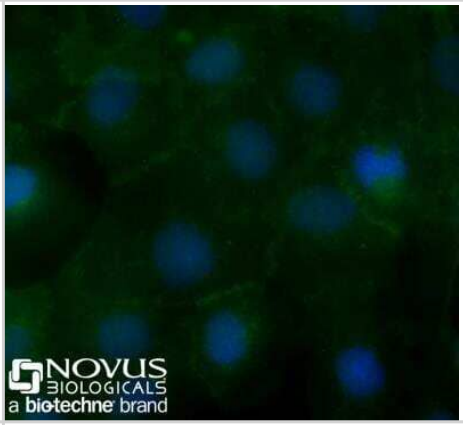
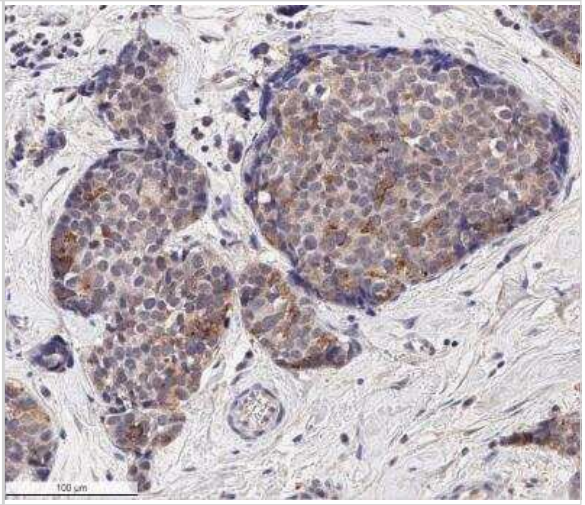
EpCAM/TROP1 Antibody (AUA1) - BSA Free

| 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 | |
|---|---|
| **Host** | Mouse |
| **Gene ID** | 4072 |
| **Gene Symbol** | EPCAM |
| **Species** | Human |
| **Immunogen** | LoVo cell line preparation (Human). |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, 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. |  |

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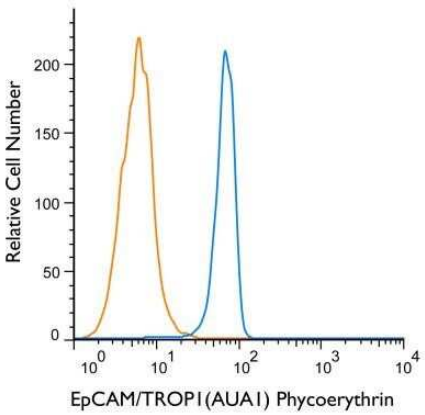
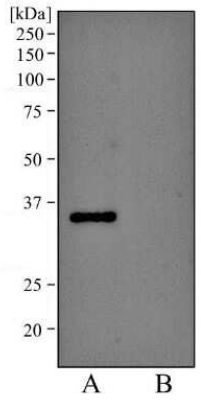
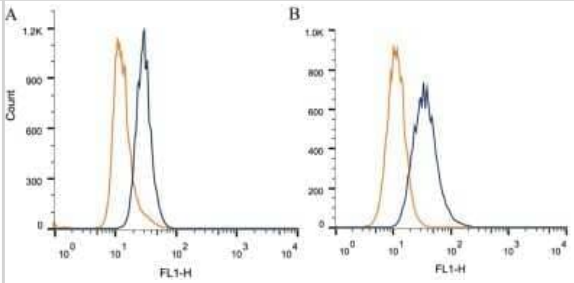
|---|---|
| Flow Cytometry: EpCAM/TROP1 Antibody (AUA1) [NB600-1182] - Using the PE direct conjugate A cell surface stain was performed on HT-29 cells with EpCAM (AUA1) antibody NB600-1182PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were incubated in an antibody dilution of 5 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 10^6 CHO (A) and HeLa (B) cells using EpCAM/CD326 antibody (blue) and matched Isotype control (orange). An antibody concentration of 1 ug/1x10^6 cells was used. |  |

## Publications


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.

El-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, El-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

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|---|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-97005-0.5mg | Mouse IgG1 Isotype Control (MG1) |
| NBP2-52190-0.05mg | Recombinant Human EpCAM/TROP1 His Protein |

### 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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