

Product Datasheet

Cytokeratin, pan Antibody (C-11) - BSA Free NBP1-48348

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NBP1-48348

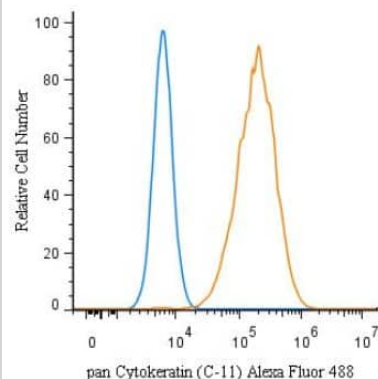
Cytokeratin, pan Antibody (C-11) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	C-11
Preservative	0.9% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.4)
Product Description	
Host	Mouse
Gene ID	3848
Gene Symbol	KRT1
Species	Human, Mouse, Guinea Pig, Mammal
Reactivity Notes	Mouse reactivity reported in (PMID:26574781). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Specificity/Sensitivity	This Mouse monoclonal Cytokeratin (Pan-reactive) antibody reacts with Cytokeratin peptides 4, 5, 6, 8, 10, 13, 18. Cytokeratins are a member of intermediate filaments subfamily represented in epithelial tissues.
Immunogen	This Cytokeratin, pan Antibody (C-11) was developed against a keratin-enriched preparation from human epidermoid carcinoma cell line A431.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1 ug/ml, Immunohistochemistry 2-8 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 1:200, Flow (Intracellular) 1 ug/mL, CyTOF-ready
Application Notes	This antibody is CyTOF ready.



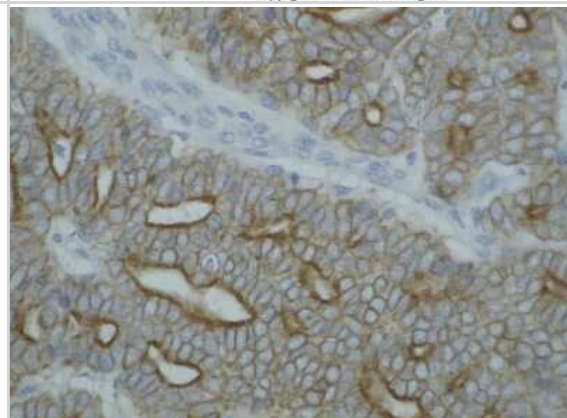
Images

Flow Cytometry: Cytokeratin, pan Antibody (C-11) [NBP1-48348] - An intracellular stain was performed on HeLa cells with pan Cytokeratin antibody (C-11) NBP1-48348AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.

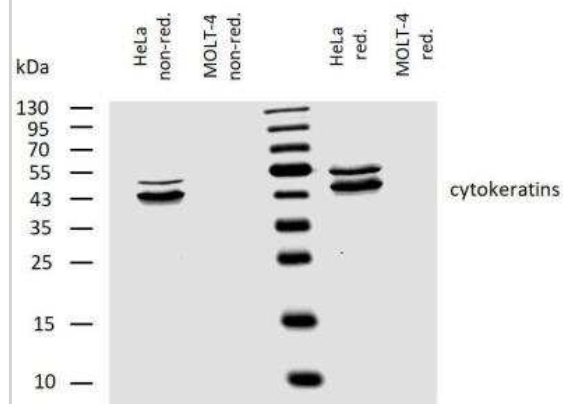


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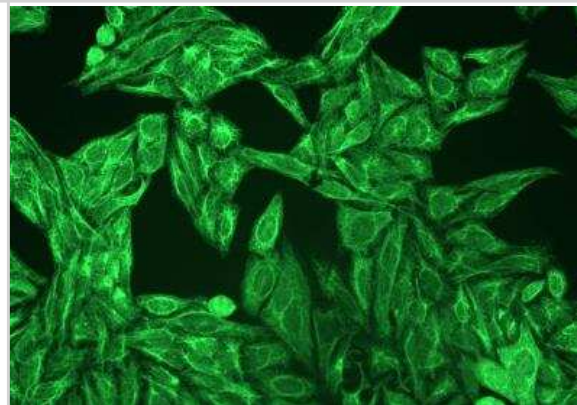
Immunohistochemistry-Paraffin: Cytokeratin, pan Antibody (C-11) [NBP1-48348] - Staining of cytokeratin on guinea pig breast carcinoma.



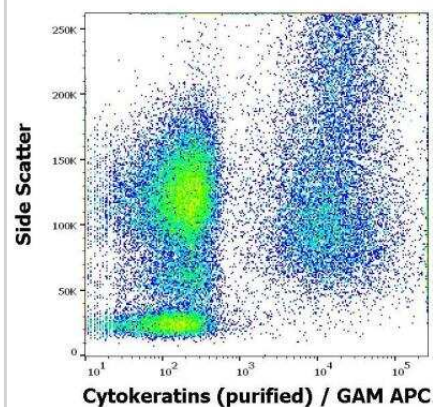
Western Blot: Cytokeratin, pan Antibody (C-11) - BSA Free [NBP1-48348] - Analysis of human cytokeratins using mouse monoclonal antibody C-11 on lysates of HeLa cell line and MOLT-4 cell line (cytokeratin non-expressing cell line; negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 ug/ml of mouse monoclonal antibody anti-cytokeratins followed by IRDye800-conjugated anti-mouse secondary antibody. Specific bands were detected for cytokeratins at approximately 45-55 kDa.



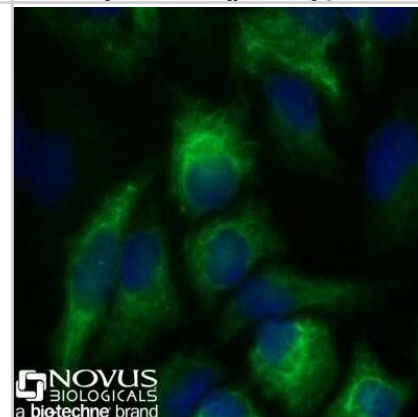
Immunocytochemistry/Immunofluorescence: Cytokeratin, pan Antibody (C-11) - BSA Free [NBP1-48348] - Staining of cytokeratins in Hep-2 cells using pan-cytokeratin antibody C-11 (diluted 1:400), detected with GAM IgG-Alexa Fluor®488 (diluted 1:200; green).



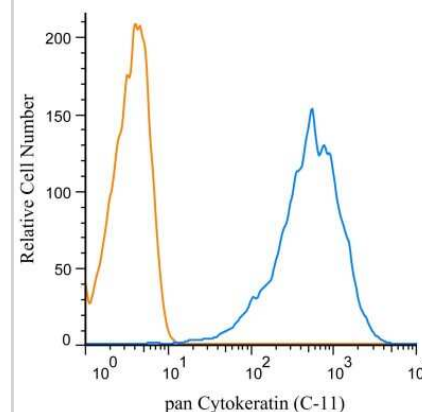
Flow (Intracellular): Cytokeratin, pan Antibody (C-11) - BSA Free [NBP1-48348] - Intracellular staining pattern of human peripheral whole blood spiked with MCF-7 cells stained using anti-Cytokeratins (C-11) purified antibody (concentration in sample 3 ug/ml, GAM APC).



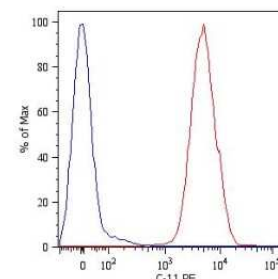
Immunocytochemistry/Immunofluorescence: Cytokeratin, pan Antibody (C-11) [NBP1-48348] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-pan Cytokeratin (C-11) conjugated to Alexa Fluor 488 [NBP2-33134AF488] at 10 ug/mL for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the Alexa Fluor 488 version of this antibody.



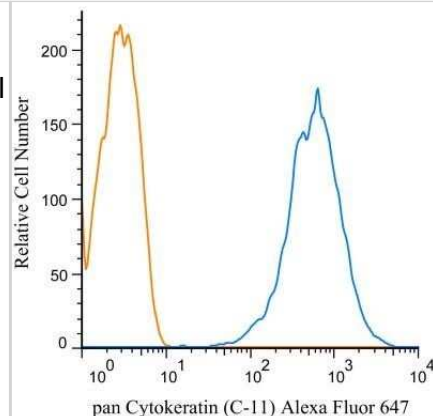
Flow (Intracellular): Cytokeratin, pan Antibody (C-11) [NBP1-48348] - An intracellular stain was performed on HeLa cells with pan Cytokeratin (C-11) antibody NBP1-48348 (blue) and a matched isotype control NBP2-27287 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes, followed by mouse F(ab)2 IgG (H+L) PE-conjugated secondary antibody (F0102B, R&D Systems).



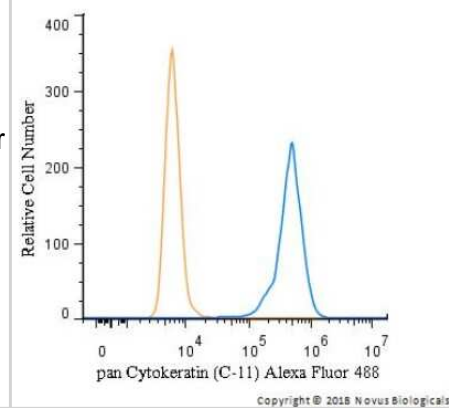
Flow Cytometry: Cytokeratin, pan Antibody (C-11) [NBP1-48348] - Intracellular flow cytometry analysis of cytokeratin expression in HT-29 human Caucasian colon adenocarcinoma cell line using anti-cytokeratin antibody (C-11) PE. Overlay with Isotype mouse IgG1 control.



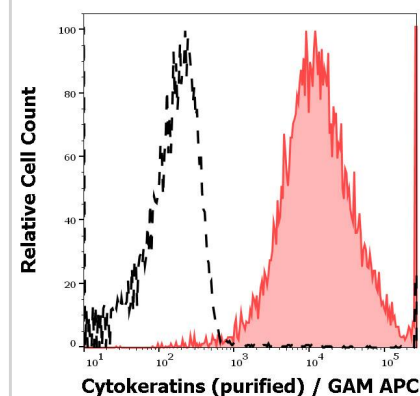
Flow (Intracellular): Cytokeratin, pan Antibody (C-11) [NBP1-48348] - An intracellular stain was performed on HeLa cells with pan Cytokeratin antibody (C-11) NBP1-48348AF647 (blue) and a matched isotype control NBP2-27287AF647 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



Flow Cytometry: Cytokeratin, pan Antibody (C-11) [NBP1-48348] - An intracellular stain was performed on A549 cells with pan Cytokeratin Antibody (C-11) NBP1-48348F488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Analysis of human cytokeratin using mouse monoclonal antibody C-11 on lysates of HeLa cell line and MOLT-4 cell line (cytokeratin non-expressing cell line; negative control) under non-reducing and reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of mouse monoclonal antibody anti-cytokeratin followed by IRDye800-conjugated anti-mouse secondary antibody. Specific bands were detected for cytokeratin at approximately 45-55 kDa.



Publications

Kleeman S, Thakir T, Demestichas B et al. Cystatin C is glucocorticoid responsive, directs recruitment of Trem2+ macrophages, and predicts failure of cancer immunotherapy Cell Genomics 2023-06-23 [PMID: 37601967] (IHC-Fr, Mouse)

McGowan SE, McCoy DM. Regulation of fibroblast lipid storage and myofibroblast phenotypes during alveolar septation in mice Am J Physiol Lung Cell Mol Physiol 2014-08-24 [PMID: 25150063]

Details:

Citation using the PE version of this antibody.

Papadaki MA, Mala A, Merodoulaki AC Et al. Investigating the Role of CTCs with Stem/EMT-like Features in Metastatic Breast Cancer Patients Treated with Eribulin Mesylate Cancers (Basel) 2022-08-26 [PMID: 36010896] (ICC/IF, Human)

Details:

Citation using the Alexa Fluor 488 version of this antibody.

Polioudaki H, Mala A, Gkimprxi E et al. Epithelial/Mesenchymal Characteristics and PD-L1 Co-Expression in CTCs of Metastatic Breast Cancer Patients Treated with Eribulin: Correlation with Clinical Outcome Cancers 2020-12-11 [PMID: 33322610]

Details:

We developed a method combining immunocytochemistry, indirect and direct immunofluorescence.

Papadaki MA, Koutsopoulos AV, Tsoulfas PG et al. Clinical Relevance of Immune Checkpoints on Circulating Tumor Cells in Breast Cancer Cancers (Basel) 2020-02-06 [PMID: 32041353] (ICC/IF, Human)

Ijsselsteijn ME, Brouwer TP, Abdulrahman Z et al. Cancer immunophenotyping by 7 colour multispectral imaging without tyramide signal amplification J Pathol Clin Res. 2018-01-01 [PMID: 30191683] (ICC/IF, Human)

Details:

Citation using the Alexa Fluor 647 form of this antibody.

Consentius C, Mirenska A, Jurisch A et al. In situ detection of CD73+ CD90+ CD105+ lineage: Mesenchymal stromal cells in human placenta and bone marrow specimens by chipcytometry. Cytometry A 2018-07-01 [PMID: 30211969] (FLOW, Human)

Ogata A, Kawashima M, Wakamiya T et al. Carotid artery stenosis with a high-intensity signal plaque on time-of-flight magnetic resonance angiography and association with evidence of intraplaque hypoxia J. Neurosurg. 2016-07-01 [PMID: 27367236] (ICC/IF, Human)

Sinha M, Lowell CA. Immune Defense Protein Expression in Highly Purified Mouse Lung Epithelial Cells. Am. J. Respir. Cell Mol. Biol. 2015 Nov 17 [PMID: 26574781]





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NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-48348AF488	Cytokeratin, pan Antibody (C-11) [Alexa Fluor® 488]

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