

Product Datasheet

Cytokeratin, pan Antibody (AE-1/AE-3) [Alexa Fluor® 488] NBP2-33200AF488

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-33200AF488

Cytokeratin, pan Antibody (AE-1/AE-3) [Alexa Fluor® 488]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	AE-1/AE-3
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa/IgG1 Kappa
Conjugate	Alexa Fluor 488
Purity	Protein A or G purified
Buffer	50mM Sodium Borate
Product Description	
Host	Mouse
Gene ID	3848
Gene Symbol	KRT1
Species	Human, Mouse, Rat, Bovine, Canine, Chicken, Monkey, Rabbit, Reptile, Zebrafish
Reactivity Notes	Reptile reactivity reported in scientific literature (PMID: 11351328). Zebrafish reactivity reported in scientific literature (PMID: 30970016).
Marker	Epithelial marker
Specificity/Sensitivity	Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI 6.0) subfamilies. This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, which 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 52kDa (CK8); 56.5kDa (CK10); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 40kDa (CK19). Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis. AE-1/AE-3 is a broad spectrum anti pan-cytokeratin antibody cocktail, which differentiates epithelial tumors from non-epithelial tumors e.g. squamous vs. adenocarcinoma of the lung, liver carcinoma, breast cancer, and esophageal cancer. It has been used to characterize the source of various neoplasms and to study the distribution of cytokeratin containing cells in epithelia during normal development and during the development of epithelial neoplasms. This antibody stains cytokeratins present in normal and abnormal human tissues and has shown high sensitivity in the recognition of epithelial cells and carcinomas.
Immunogen	Human epidermal keratin

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Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready, Dual RNAscope ISH-IHC, Single Cell Western
Recommended Dilutions	Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Flow (Intracellular), CyTOF-ready, Single Cell Western, Dual RNAscope ISH-IHC
Application Notes	Optimal dilution of this antibody should be experimentally determined.

Publications

Jenna H. Rannikko, Loic Verlingue, Maria de Miguel, Annika Pasanen, Debbie Robbrecht, Tanja Skytta, Sanna Iivanainen, Shishir Shetty, Yuk Ting Ma, Donna M. Graham, Sukeshi Patel Arora, Panu Jaakkola, Christina Yap, Yujuan Xiang, Jami Mandelin, Matti K. Karvonen, Juho Jalkanen, Sinem Karaman, Jussi P. Koivunen, Anna Minchom, Maija Hollmén, Petri Bono Bexmarilimab-induced macrophage activation leads to treatment benefit in solid tumors: The phase I/II first-in-human MATINS trial Cell Reports Medicine 2023-12-05 [PMID: 38056464]

Ain Q, Frei N, Khoshiwal A et al. Feasibility Study Utilizing NanoStrings Digital Spatial Profiling (DSP) Technology for Characterizing the Immune Microenvironment in Barretts Esophagus FFPE Tissues bioRxiv 2023-11-03 [PMID: 38136440] (IHC, Human)

Shah O, Nasrazadani A, Foldi J et al. Spatial molecular profiling of mixed invasive ductal-lobular breast cancers reveals heterogeneity in intrinsic molecular subtypes, oncogenic signatures and actionable driver mutations bioRxiv 2023-09-12 (Human)

Details:

Digital Spatial Profiling, AF488 conjugation used

Roelands J, van der Ploeg M, Ijsselsteijn ME Et al. Transcriptomic and immunophenotypic profiling reveals molecular and immunological hallmarks of colorectal cancer tumourigenesis Gut 2022-11-28 [PMID: 36442992] (IHC-P, Human)

Details:

Citation using the Alexa Fluor 488 version of this antibody.

Khan M, Yoo SJ, Clijsters M et al. Visualizing in deceased COVID-19 patients how SARS-CoV-2 attacks the respiratory and olfactory mucosae but spares the olfactory bulb Cell 2021-11-01 [PMID: 34798069] (IF/IHC)

Details:

Citation using the Alexa Fluor 488 format of this antibody.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-33200AF488

DNST0	Endostatin [HRP]
MAB1455	Albumin Antibody (188835) [Unconjugated] - Serum
NB100-687	Cytokeratin 19 Antibody - BSA Free
NBP2-16094	Cytokeratin 8 Antibody

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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