

Product Datasheet

Cytokeratin, pan Antibody (AE-1/AE-3) [Alexa Fluor® 647] NBP2-33200AF647

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-33200AF647

Cytokeratin, pan Antibody (AE-1/AE-3) [Alexa Fluor® 647]

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 647
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

van Oost S, Meijer DM, Ijsselsteijn ME et Al. Multimodal profiling of chordoma immunity reveals distinct immune contextures J Immunother Cancer 2024-01-01 [PMID: 38272563]

Martincuks A, Song J, Kohut A et Al. PARP Inhibition Activates STAT3 in Both Tumor and Immune Cells Underlying Therapy Resistance and Immunosuppression In Ovarian Cancer Front Oncol 2021-12-07 [PMID: 34956861]

Xie Z, Niu L, Du K et Al. Endothelial cell heterogeneity in colorectal cancer: tip cells drive angiogenesis Cell Mol Life Sci 2024-08-22 [PMID: 39172168]

Macchiarella G, Cornacchione V, Cojean C et al. Disease Association of Anti- γ -Carboxyethyl Lysine Autoantibodies in Hidradenitis Suppurativa The Journal of investigative dermatology 2023-02-01 [PMID: 36116506]

Zhou AS, Tucker JB, Scribano CM et al. Diverse microtubule-targeted anticancer agents kill cells by inducing chromosome missegregation on multipolar spindles PLoS biology 2023-10-01 [PMID: 37883329]

Details:

Dilution 1:100; conjugated with AF647

Schmitd LB, Perez-Pacheco C, Bellile EL et al. Spatial and Transcriptomic Analysis of Perineural Invasion in Oral Cancer Clinical Cancer Research 2022-08-15 [PMID: 35819260]

Zhang Q, Abdo R, Iosef C et al. The spatial transcriptomic landscape of non-small cell lung cancer brain metastasis Nature Communications 2022-10-10 [PMID: 36216799]

Wan J, Block S, Scribano CM et al. Mad1 destabilizes p53 by preventing PML from sequestering MDM2 Nature communications 2019-04-04 [PMID: 30948704]

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.





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Products Related to NBP2-33200AF647

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

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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