

Product Datasheet

Cytokeratin, pan Antibody (AE-1/AE-3) [Alexa Fluor® 532] NBP2-33200AF532

Unit Size: 0.1 ml

Store at 4C in the dark. Do not freeze.

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Cytokeratin, pan Antibody (AE-1/AE-3) [Alexa Fluor® 532]

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. Do not freeze.
Clonality	Monoclonal
Clone	AE-1/AE-3
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa/IgG1 Kappa
Conjugate	Alexa Fluor 532
Purity	Protein A or G purified
Buffer	50 mM 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
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



Publications

Caputo A, Vipparthi K, Bazeley P, Downs-Kelly E et Al. Spatial Transcriptomics Suggests That Alterations Occur in the Preneoplastic Breast Microenvironment of BRCA1/2 Mutation Carriers Mol Cancer Res 2023-10-25 [PMID: 37878345]

Christensson G, Bocci M, Kazi JU, Durand G et Al. Spatial Multiomics Reveals Intratumoral Immune Heterogeneity with Distinct Cytokine Networks in Lung Cancer Brain Metastases Cancer Res Commun 2024-10-14 [PMID: 39400127]

Park, J;Overbey, EG;Narayanan, SA;Kim, J;Tierney, BT;Damle, N;Najjar, D;Ryon, KA;Proszynski, J;Kleinman, A;Hirschberg, JW;MacKay, M;Afshin, EE;Granstein, R;Gurvitch, J;Hudson, BM;Rininger, A;Mullane, S;Church, SE;Meydan, C;Church, G;Beheshti, A;Mateus, J;Mason, CE; Spatial multi-omics of human skin reveals KRAS and inflammatory responses to spaceflight Nature communications 2024-06-11 [PMID: 38862494]

Ozturk H, Cingoz H, Tufan T Et al. ISL2 is a putative tumor suppressor whose epigenetic silencing reprograms the metabolism of pancreatic cancer Dev Cell 2022-05-04 [PMID: 35508175]

Details:

Citation using the Azide and BSA Free version of this antibody.

Park J Multi-Omics Modeling for the Recovery of Disrupted Biological Systems Thesis 2023-01-01

Jannone G, Bonaccorsi Riani E, de Magn□e C et al. Senescence and senotherapies in biliary atresia and biliary cirrhosis Aging (Albany NY) 2023-05-18 [PMID: 37204430]

Carter JM, Chumsri S, Hinerfeld DA et al. Distinct spatial immune microlandscapes are independently associated with outcomes in triple-negative breast cancer Nature communications 2023-04-18 [PMID: 37072398] (IHC, Human)

Hwang WL, Jagadeesh KA, Guo JA Et al. Single-nucleus and spatial transcriptome profiling of pancreatic cancer identifies multicellular dynamics associated with neoadjuvant treatment Nat Genet 2022-07-28 [PMID: 35902743] (IHC-P, Human)

Details:

Citation using the Alexa Fluor 532 version of this antibody.





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Products Related to NBP2-33200AF532

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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