Product Datasheet

Cytokeratin 14 Antibody (KRT14/532) [Alexa Fluor® 647]
NBP2-47720AF647

Unit Size: 0.1 ml

Store at 4C in the dark.

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Publications: 1

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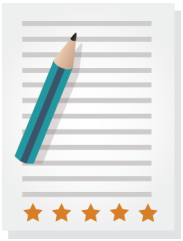
Updated 10/23/2024 v.20.1



NBP2-47720AF647

Cytokeratin 14 Antibody (KRT14/532) [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	KRT14/532
Preservative	0.05% Sodium Azide
Isotype	IgG3 Kappa
Conjugate	Alexa Fluor 647
Purity	Protein A or G purified
Buffer	50mM Sodium Borate

Product Description	
Host	Mouse
Gene ID	3861
Gene Symbol	KRT14
Species	Human, Mouse, Rat
Marker	Squamous Cell Marker
Specificity/Sensitivity	Cytokeratin 14 (CK14) belongs to the type I (or A or acidic) subfamily of low molecular weight keratins and exists in combination with keratin 5 (type II or B or basic). CK14 is found in basal cells of squamous epithelia, some glandular epithelia, myoepithelium, and mesothelial cells. Anti-CK14 is useful in differentiating squamous cell carcinomas from poorly differentiated epithelial tumors. Anti-CK14 is one of the specific basal markers for distinguishing between basal and non-basal subtypes of breast carcinomas. Anti-CK14 is also a good marker for differentiation of intraductal from invasive salivary duct carcinoma by the positive staining of basal cells surrounding the in-situ neoplasm as well as for differentiation of benign prostate from prostate carcinoma. Furthermore, this antibody has been useful in separating oncocytic tumors of the kidney from its renal mimics, and in identifying metaplastic carcinomas of the breast.
Immunogen	Recombinant full-length human Cytokeratin 14 protein (Uniprot: P02533)

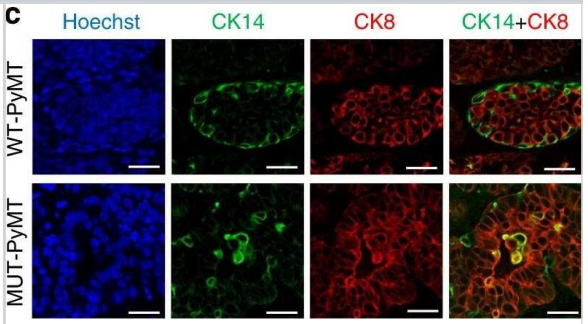
Notes	Alexa Fluor (R) products are provided under an intellectual property license from Life Technologies Corporation. The purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: (i) in manufacturing; (ii) to provide a service, information, or data in return for payment; (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com. This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet.

Product Application Details

Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Immunofluorescence
Recommended Dilutions	Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunofluorescence, CyTOF-ready
Application Notes	Optimal dilution of this antibody should be experimentally determined.

Images

Loss of TET2 expression promotes tumorigenesis and tamoxifen resistance in vivo. c Representative immunofluorescence images showing co-staining of CK8 (red) and CK14 (green) in mammary glands of 7-week-old WT-PyMT and MUT-PyMT female mice (scale bar: 50 um), and d bar graphs showing percentage of CK14+CK8-, CK14-CK8+, and CK14+CK8+cells. n = 8 data points analyzed from eight independent tissue section staining images of two animals for each group. Data were presented as mean +/- SD. p-values were determined by two-sided Student's t-test between the indicated two groups; asterisk indicates p < 0.05. Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32934200), licensed under a CC-BY licence.



Publications

Kim MR, Wu MJ, Zhang Y et al TET2 directs mammary luminal cell differentiation and endocrine response Nat Commun 2020-09-16 [PMID: 32934200] (FLOW, FLOW, Mouse)

Details:
Citation using the Alexa Fluor 647 version of this antibody.

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Products Related to NBP2-47720AF647

NBP1-72467-100ug	Recombinant Human Cytokeratin 14 His Protein
1129-ER-050	ErbB2/Her2 [Unconjugated]
NBP3-39675	Human Cytokeratin 14 ELISA Kit (Colorimetric)
NB100-355	RPE65 Antibody (401.8B11.3D9) - 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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