

Mouse Cytokeratin 14 (KRT14) Monoclonal Antibody | anti-KRT14 antibody

Cytokeratin 14 (KRT14) (Squamous Cell Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215486	Mouse	Human, Mouse, Rat	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Cytokeratin 14 (KRT14); Monoclonal Antibody; Cytokeratin 14 (KRT14) (Squamous Cell Marker); CK-14; Dowling Meara; ebs3; ebs4; Epidermolysis Bullosa Simplex; Keratin Type I Cytoskeletal 14; Koebner; NFJ; anti-KRT14 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG3, kappa
Clone Number	LL002
Specificity	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.
Purity/Purification	Purified Ab conjugated to Biotin
Form/Format	Antibody purified from Bioreactor Concentrate by Protein A/G and conjugated to Biotin. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide.
Sequence Length	472
Applicable Applications for anti-KRT14 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	A synthetic peptide of 15 amino acid from the C-terminus of Human keratin 14.
Cellular Localization	Cytoplasmic
Hu-chromosome Location	17q21.2
Positive Control	HeLa, A549, or A431 cells. Skin or Squamous cell carcinoma.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified Cytokeratin 14 Mouse Monoclonal Antibody (LL002) (unconjugated). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human skin stained with Biotin-conjugated Cytokeratin 14 Mouse Monoclonal Antibody (LL002).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human skin stained with Biotin-conjugated Cytokeratin 14 Mouse Monoclonal Antibody (LL002).

ADDITIONAL INFORMATION

References	Leigh I.M., et. al. (1988) Dermatology, 91:415. Purkis P., et al. 1990. Journal of Cell Science. 97: p39-50.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	229463044
NCBI GeneID	3861
UniProt Accession #	P02533
Molecular Weight	50kDa
NCBI Official Full Name	Keratin, type I cytoskeletal 14
NCBI Official Synonym Full Names	keratin 14
NCBI Official Symbol	KRT14
NCBI Official Synonym Symbols	K14; NFJ; CK14; EBS3; EBS4
NCBI Protein Information	keratin, type I cytoskeletal 14
UniProt Protein Name	Keratin, type I cytoskeletal 14
UniProt Gene Name	KRT14
UniProt Synonym Gene Names	CK-14; K14
UniProt Entry Name	K1C14_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.