Mouse anti-Human Cytokeratin 4 (KRT4) Monoclonal Antibody | anti-KRT4 antibody

Cytokeratin 4 (KRT4)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215056	**Mouse**	**Human**	**Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

Cytokeratin 4 (KRT4); Monoclonal Antibody; CK4; CYK4; Cytokeratin 4; Keratin 4; Keratin type II cytoskeletal 4; KRT4; anti-KRT4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	KRT4/2804
Specificity	Cytokeratin 4 (KRT4) is an intermediate filament protein associated with Cytokeratin 13 (KRT13). It is expressed in suprabasal cells of non-keratinized stratified squamous epithelium of esophagus, cornea, anus, larynx, pharynx and tongue. Decreased expression of KRT4 is associated with head and neck squamous carcinoma. It is helpful in differentiation of squamous cell carcinoma of esophagus origin from that of thyroid origin.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	534
Applicable Applications for anti-KRT4 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Positive Control	HeLa, A549 or A431 cells. Skin, Cervix or Esophagus.
Immunogen	Recombinant fragment (around aa 181-292) of human KRT4 protein (exact sequence is proprietary)
Cellular Localization	Cytoplasmic and Cell Surface
Hu-chromosome Location	12q13.13
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



Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



IF (Immunofluorescence)
Immunofluorescence Analysis of A549 cells labeling KRT4 with Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804)followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).



FCM/FACS (Flow Cytometry)
Flow Cytometric Analysis of HeLa cells using Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804)followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Skin stained with Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804).

ADDITIONAL INFORMATION

References	Opitz Og, et al. J Biol Chem. 1998 Sep 11;273(37):23912-21.

NCBI AND UNIPROT INFORMATION

NCBI GI #	82654947
NCBI GeneID	3851
UniProt Accession #	P19013
Molecular Weight	67kDa
NCBI Official Full Name	Keratin, type II cytoskeletal 4
NCBI Official Synonym Full Names	keratin 4
NCBI Official Symbol	KRT4
NCBI Official Synonym Symbols	K4; CK4; CK-4; CYK4; WSN1
NCBI Protein Information	keratin, type II cytoskeletal 4
UniProt Protein Name	Keratin, type II cytoskeletal 4
UniProt Gene Name	**KRT4**
UniProt Synonym Gene Names	CYK4; CK-4; K4
UniProt Entry Name	K2C4_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/cytokeratin-4-krt4-antibody-clone-krt4-2804-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/215056