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36-2649: Anti-Cytokeratin 4 (KRT4) Monoclonal Antibody(Clone: KRT4/2804)

Clonality :	Monoclonal
Clone Name :	KRT4/2804
Application :	FACS,IF,IHC
Reactivity :	Human
Gene :	KRT4
Gene ID :	3851
Uniprot ID :	P19013
Alternative Name :	CK4; CYK4; Cytokeratin 4; Keratin 4; Keratin type II cytoskeletal 4; KRT4
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment (around aa 181-292) of human KRT4 protein (exact sequence is proprietary)

Description

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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

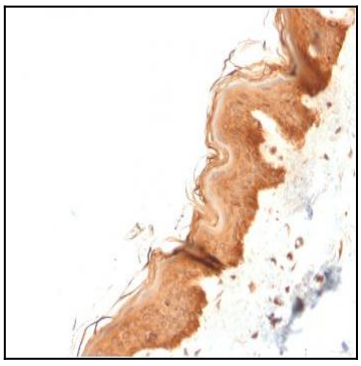


Fig. 1: Formalin-fixed, paraffin-embedded human Skin stained with Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804).

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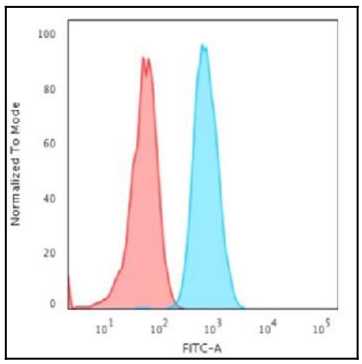


Fig. 2: Flow Cytometric Analysis of HeLa cells using Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804)followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

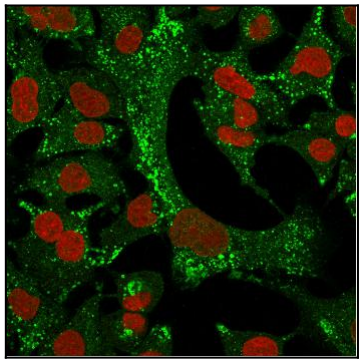


Fig. 3: Immunofluorescence Analysis of A549 cells labeling KRT4 with Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804)followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).

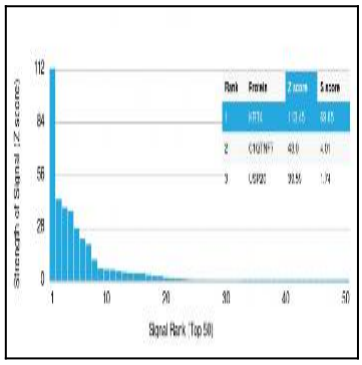


Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using Cytokeratin 4 Mouse Monoclonal Antibody (KRT4/2804). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary 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.

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