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36-2648: Anti-Cytokeratin 3 (KRT3) (Corneal Epithelial Marker) Monoclonal Antibody(Clone: KRT3/2130)

Clonality :	Monoclonal
Clone Name :	KRT3/2130
Application :	IHC
Reactivity :	Human
Gene :	KRT3
Gene ID :	38550
Uniprot ID :	P12035
Alternative Name :	65kDa cytokeratin; CK3; Cytokeratin-3; K3; Keratin type II Cytoskeletal-3; Keratin-3; KRT3
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant full-length human KRT3 protein

Description

The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins, which are arranged in pairs of heterotypic keratin chains co-expressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the corneal epithelium with family member KRT12 and mutations in these genes have been associated with Meesmann's Corneal Dystrophy.

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

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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);

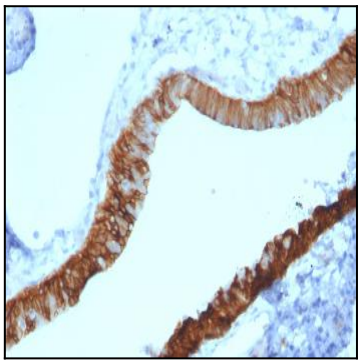

Fig. 1: Formalin-fixed, paraffin-embedded human Ovary stained with Cytokeratin 3 Mouse Monoclonal Antibody (KRT3/2130).

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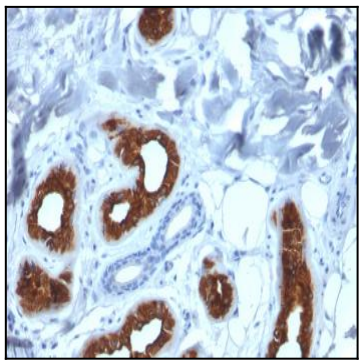

Fig. 2: Formalin-fixed, paraffin-embedded human Skin stained with Cytokeratin 3 Mouse Monoclonal Antibody (KRT3/2130).

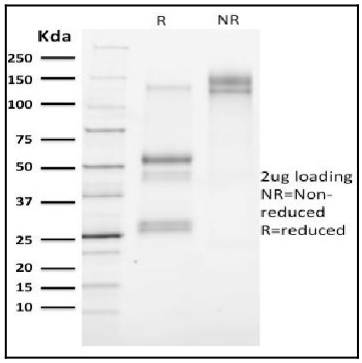

Fig. 3: SDS-PAGE Analysis Purified Cytokeratin 3 Mouse Monoclonal Antibody (KRT3/2130). Confirmation of Purity and Integrity of Antibody.

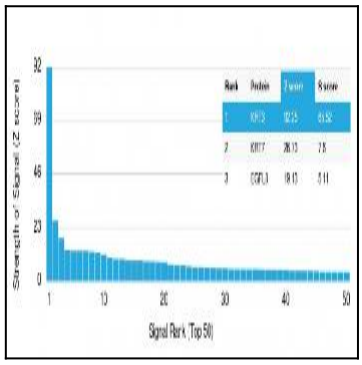

Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using Cytokeratin 3 Mouse Monoclonal Antibody (KRT3/2130). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary 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.