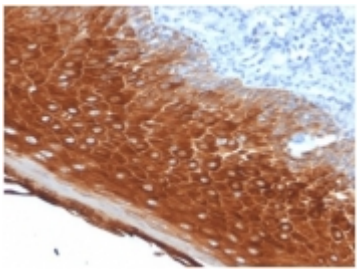
Cytokeratin 6A (KRT6A) (Basal Cell Marker)

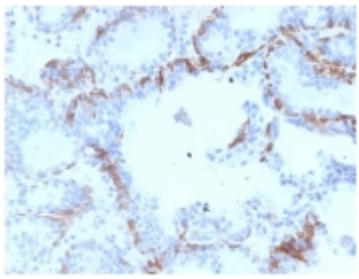
Mouse Monoclonal Antibody [Clone KRT6A/2368]

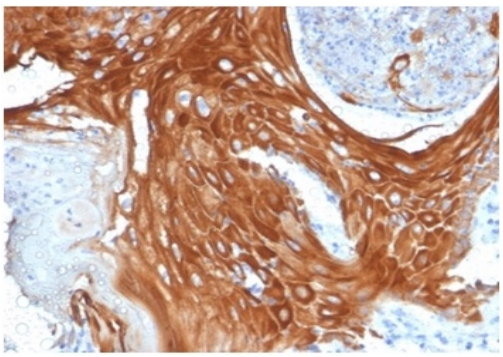
Catalog No	Format	Size	Price (USD)
3853-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug	219.00
3853-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug	499.00
3853-MSM4-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug	499.00

Human Entrez Gene ID	3853
Human SwissProt	P02538
Human Unigene	700779
Human Gene Symbol	KRT6A
Human Chromosome Location	12q13.13
Synonyms	58kDa Cytokeratin; CK5; Cytokeratin-5; DDD1; Epidermolysis Bullosa Simplex 2 (EBS2); Keratin 5; Keratin, Type II Cytoskeletal 5; Keratin-5; KRT5; Type-II Cytoskeletal 5; Type-II keratin Kb5

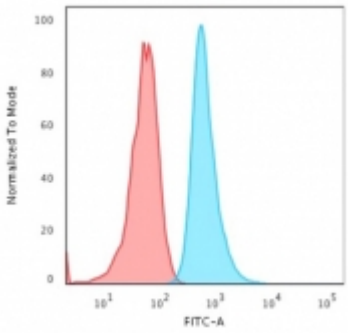
Immunogen	Recombinant full-length human Cytokeratin 6A (KRT6A)protein
Host / Ig Isotype	Mouse / IgG2a, kappa
Mol. Weight of Antigen	56kDa
Cellular Localization	Cytoplasm
Species Reactivity	Human.
Positive Control	HeLa cells. Human tonsil or basal cell carcinoma (BCC).

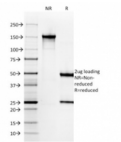


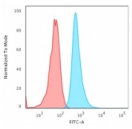


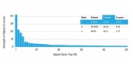


Formalin-fixed, paraffin-embedded human basal cell carcinoma stained with Cytokeratin 6A (KRT6A) Mouse Monoclonal Antibody (KRT6A/2368).









Specificity & Comments

This MAb recognizes a protein of 56kDa, identified as cytokeratin 6A (KRT6A). In humans, multiple isoforms of Cytokeratin 6 (6A-6F), encoded by several highly homologous genes, have distinct tissue expression patterns. Cytokeratin 6A is the dominant form in epithelial tissue. Cytokeratin 6 and 16 are expressed in keratinocytes, which are undergoing rapid turnover in the suprabasal region (also known as hyper-proliferation-related keratins). Cytokeratin 6 is found in hair follicles, suprabasal cells of a variety of internal stratified epithelia, in epidermis, in both normal and hyper-proliferative situations. Epidermal injury results in activation of keratinocytes, which express KRT6 and KRT16. KRT6 is strongly expressed in about 75% of head and neck squamous cell carcinomas..

Known Applications & Suggested Dilutions

Flow Cytometry (1-2ug/million cells)
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)
Optimal dilution for a specific application should be determined.

Key References

1. Stephens, K., et al. 1995. Epidermolysis bullosa simplex: a keratin 5 mutation is a fully dominant allele in epidermal cytoskeleton function. Am. J. Hum. Genet. 56: 577-585.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

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. No MSDS required.

Limitations

This antibody is available for research use only and is not approved for use in diagnosis.

Warranty