KRT5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KRT5, Polyclonal Antibody
Full Product Name	KRT5 Conjugated Antibody
Product Gene Name	anti-KRT5 antibody
Product Synonym Names	K5; CK5; DDD; EBS2; KRT5A
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total KRT5 antibody.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	62,378 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (52908359..52914243, complement). Location: 12q13.13
OMIM	131760
3D Structure	ModBase 3D Structure for P13647
Immunogen	Recombinant protein of human KRT5.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-KRT5 antibody	Most Applications
Application Notes for anti-KRT5 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-KRT5 antibody	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 coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in the basal layer of the epidermis with family member KRT14. Mutations in these genes have been associated with a complex of diseases termed epidermolysis bullosa simplex. The type II cytokeratins are clustered in a region of chromosome 12q12-q13.
Other Notes	Small volumes of anti-KRT5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KRT5 purchase	MBS9448639 is an antibody targeting KRT5. Also known as KRT5 Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KRT5. It may not necessarily be applicable to this product.

NCBI GI #	119395754
NCBI GeneID	3852
NCBI Accession #	NP_000415.2
UniProt Primary Accession #	P13647
UniProt Secondary Accession #	Q6PI71; Q6UBJ0; Q8TA91
UniProt Related Accession #	P13647
GenBank Nucleotide #	NM_000424.3
NCBI Official Full Name	keratin, type II cytoskeletal 5
NCBI Official Synonym Full Names	keratin 5
NCBI Official Symbol	KRT5
NCBI Official Synonym Symbols	K5; CK5; DDD; EBS2; KRT5A
UniProt Protein Name	Keratin, type II cytoskeletal 5
UniProt Synonym Protein Names	58 kDa cytokeratin; Cytokeratin-5; CK-5; Keratin-5; K5; Type-II keratin Kb5
Protein Family	Keratin
UniProt Gene Name	KRT5
UniProt Synonym Gene Names	CK-5; K5
UniProt Entry Name	K2C5_HUMAN
NCBI Protein Information	keratin, type II cytoskeletal 5; CK-5; cytokeratin-5; 58 kda cytokeratin; type-II keratin Kb5; epidermolysis bullosa simplex 2 Dowling-Meara/Kobner/Weber-Cockayne types; keratin 5 (epidermolysis bullosa simplex, Dowling-Meara/Kobner/Weber-Cockayne types)
UniProt Comments for KRT5	K5: Heterotetramer of two type I and two type II keratins. Keratin-5 associates with keratin-14. Interacts with TCHP. Belongs to the intermediate filament family. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 12q13.13 Cellular Component: membrane; mitochondrion; keratin filament; cytoplasm; plasma membrane; intermediate filament; cytosol; nucleus Molecular Function: protein binding; structural constituent of cytoskeleton Biological Process: hemidesmosome assembly; epidermis development Disease: Epidermolysis Bullosa Simplex, Localized; Epidermolysis Bullosa Simplex, Generalized; Dowling-degos Disease 1; Epidermolysis Bullosa Simplex With Migratory Circinate Erythema; Epidermolysis Bullosa Simplex, Autosomal Recessive 1; Epidermolysis Bullosa Simplex With Mottled Pigmentation; Epidermolysis Bullosa Simplex, Dowling-meara Type
Research Articles on KRT5	**1.** Cytokeratine 5/6 and EGFR expressions showed correlation so these markers are reliable to diagnose basaloid type tumors with a 5% cut-off value.
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