

Recombinant Bovine Keratin, type I cytoskeletal 17(KRT17)

Catalog No: #AP70483

Package Size: #AP70483-1 20ug #AP70483-2 100ug #AP70483-3 1mg

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Description

Product Name	Recombinant Bovine Keratin, type I cytoskeletal 17(KRT17)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-441aaSequence Info:Full Length
Other Names	Cytokeratin-17 ;CK-17Keratin-17 ;K17
Accession No.	A1L595
Calculated MW	64.7 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MTTIRHFSSGSIKSSGLAGGSSRSRVSGLGGGSCRLGSAGGLGSLGGSSYSSCYSGGGGYGSG GYVSGGYGGGFGGVDGLLVGGEKATMQNLNDRLASYLDKVRALEEANTELELKIRDWYQKQAPGPAPDYSS YFKTIEDLRNKIHTATVDNANLLLQIDNARLAADDFTKFKETEALRVSEADINGLRRVLDELTLARADLEMQIE NLKEELAYLRKNHEEEMKALRGQVGGEINVEMDAAPGVDLRILNEMRDQYEKMAEKNRKAEDWFFSKTE ELNREVATNSELVQSGKSEISELRRTLQALEIELQSQLSMKASLEGSLAETENRYCMQLSQIQLIGSVEEQLA QLRCEMEQQNQEYKILLDVKTRLEQEIATYRRLLEGEDAHLTQYKTKPEVTTTRQVRTIVEEVQDGRVISSREQV HQTSH
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Type I keratin involved in the formation and maintenance of various skin appendages, specifically in determining shape and orientation of hair. Required for the correct growth of hair follicles, in particular for the persistence of the anagen (growth) state. Modulates the function of TNF-alpha in the specific context of hair cycling. Regulates protein synthesis and epithelial cell growth through binding to the adapter protein SFN and by stimulating Akt,mTOR pathway. Involved in tissue repair. May be a marker of basal cell differentiation in complex epithelia and therefore indicative of a certain type of epithelial "st cells". Acts as a promoter of epithelial proliferation by acting a regulator of immune response in skin: promotes Th1,Th17-dominated immune environment contributing to the development of basaloid skin tumors. May act as an autoantigen in the immunopathogenesis of psoriasis, with certain peptide regions being a major target for autoreactive T-cells and hence causing their proliferation.

References

Characterization of 954 bovine full-CDS cDNA sequences.Harhay G.P., Sonstegard T.S., Keele J.W., Heaton M.P., Clawson M.L., Snelling W.M., Wiedmann R.T., Van Tassell C.P., Smith T.P.L.BMC Genomics 6:166-166(2005)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.