

KRTHB1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant KRTHB1.

Catalog # AT2662a

Product Information

Application	WB, IHC, IF
Primary Accession	Q14533
Other Accession	BC021241
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2b kappa
Clone Names	3B10-5B10
Calculated MW	54928

Additional Information

Gene ID	3887
Other Names	Keratin, type II cuticular Hb1, Hair keratin K29, Keratin, hair, basic, Keratin-81, K81, Metastatic lymph node 137 gene protein, MLN 137, Type II hair keratin Hb1, Type-II keratin Kb21, ghHkb1, ghHb1, KRT81, KRTHB1, MLN137
Target/Specificity	KRTHB1 (AAH21241, 1 a.a. ~ 202 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	KRTHB1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

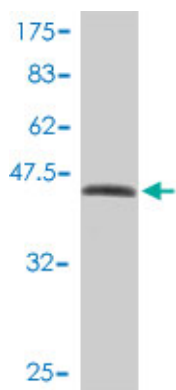
Background

The protein encoded by this gene is a member of the keratin gene family. As a type II hair keratin, it is a basic protein which heterodimerizes with type I keratins to form hair and nails. The type II hair keratins are clustered in a region of chromosome 12q13 and are grouped into two distinct subfamilies based on structure similarity. One subfamily, consisting of KRTHB1, KRTHB3, and KRTHB6, is highly related. The other less-related subfamily includes KRTHB2, KRTHB4, and KRTHB5. All hair keratins are expressed in the hair follicle; this hair keratin, as well as KRTHB3 and KRTHB6, is found primarily in the hair cortex. Mutations in this gene and KRTHB6 have been observed in patients with a rare dominant hair disease, monilethrix.

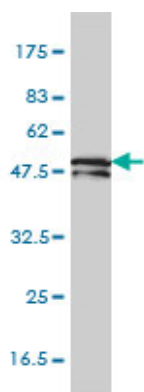
References

Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732. Transcriptional activation of a subset of hair keratin genes by the NF-kappaB effector p65/RelA. Gilon M, et al. Differentiation, 2008 May. PMID 18021261. New consensus nomenclature for mammalian keratins. Schweizer J, et al. J Cell Biol, 2006 Jul 17. PMID 16831889. Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514. Keratins of the human hair follicle. Langbein L, et al. Int Rev Cytol, 2005. PMID 15797458.

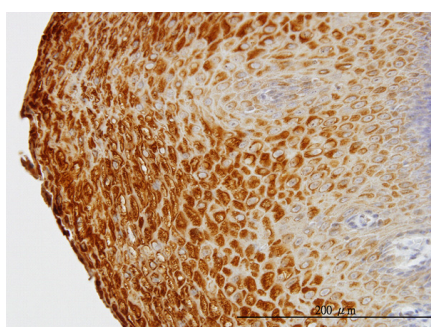
Images



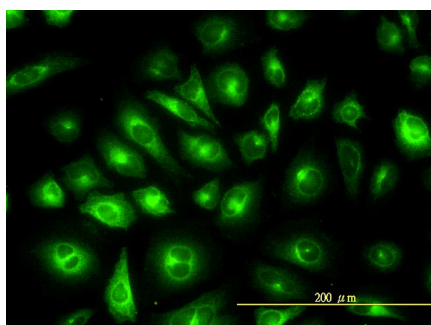
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (47.96 kDa) .



KRTHB1 monoclonal antibody (M01), clone 3B10-5B10 Western Blot analysis of KRTHB1 expression in HepG2 (Cat # AT2662a)



Immunoperoxidase of monoclonal antibody to KRTHB1 on formalin-fixed paraffin-embedded human esophagus. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to KRTHB1 on HeLa cell. [antibody concentration 10 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.