



Product datasheet

Anti-KRT81 antibody [3B10-5B10] ab55407

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Overview

Product name	Anti-KRT81 antibody [3B10-5B10]
Description	Mouse monoclonal [3B10-5B10] to KRT81
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein, corresponding to amino acids 304-505 of Human KRT81.  Run BLAST with Expasy  Run BLAST with NCBI
General notes	<p>This product was changed from ascites to tissue culture supernatant on 27/June/2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.4
Purity	Tissue culture supernatant
Purification notes	Purified from TCS.
Clonality	Monoclonal
Clone number	3B10-5B10
Isotype	IgG2b
Light chain type	kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab55407 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		
ICC/IF		
IHC-P		

Application notes

WB: Use at a concentration of 1-5 µg/ml.

IF/ICC: Use at a concentration of 10 µg/ml.

IHC-P: Use at a concentration of 3 µg/ml.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Tissue specificity

Abundantly expressed in the differentiating cortex of growing (anagen) hair. Expression is restricted to the keratinocytes of the hair cortex and is absent from inner root sheath and medulla. Expressed in malignant lymph node tissue in breast carcinoma tissue.

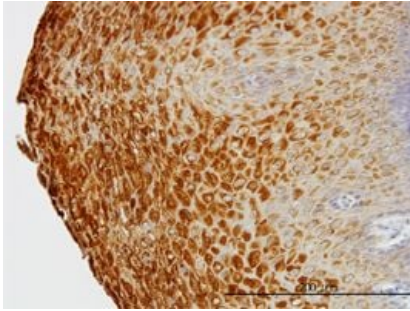
Involvement in disease

Defects in KRT81 are a cause of monilethrix (MLTRX) [MIM:158000]. Monilethrix is an autosomal dominant hair disorder characterized clinically by alopecia and follicular papules. Affected hairs have uniform elliptical nodes of normal thickness and intermittent constrictions, internodes at which the hair easily breaks. Usually only the scalp is involved, but in severe forms, the secondary sexual hair, eyebrows, eyelashes, and nails may also be affected.

Sequence similarities

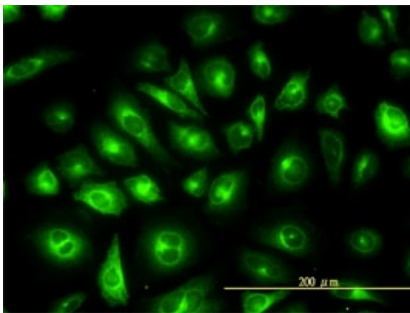
Belongs to the intermediate filament family.

Images



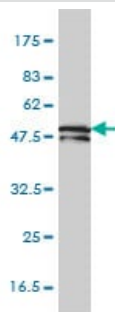
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KRT81 antibody [3B10-5B10] (ab55407)

KRT81 antibody (ab55407) used in immunohistochemistry at 3ug/ml on formalin fixed and paraffin embedded human esophagus. This was produced using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-KRT81 antibody [3B10-5B10] (ab55407)

KRT81 antibody (ab55407) used in immunofluorescence at 10ug/ml on HeLa cells. This was produced using the ascites version of the product.



Western blot - Anti-KRT81 antibody [3B10-5B10] (ab55407)

KRT81 antibody (ab55407) at 1ug/lane + HepG2 cell lysate at 25ug/lane. This was produced using the ascites version of the product.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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