

BP5090**Polyclonal Antibody to Keratin-81 (KRT81) - Serum****Alternate names:**

1, K2.9, K81, KRT81, KRTHB1, Keratin, Keratin, Keratin 81, Keratin hair basic 1, Keratin-81, Keratin81, MLN 137, MLN137, Type II hair keratin Hb1, basic, ghHk1, ghHb1, hair, type II cuticular Hb1

Quantity:

0.1 ml

Background:

KRT81 (Keratin 81) is a type II hair keratin. It is a basic protein which heterodimerizes with type I keratins to form hair and nails. It is found primarily in the hair cortex. Mutations in KRT81 have been observed in patients with, monilethrix, a rare dominant hair disease characterized by beaded or moniliform hair that results from the periodic thinning of the hair shaft and shows a high propensity to excess weathering and fracturing.

Uniprot ID:

[Q14533](#)

NCBI:

[NP_002272.2](#)

GeneID:

[3887](#)

Host:

Guinea Pig

Immunogen:

Synthetic peptide of Human basic hair (trichocytic) keratin K81 (formerly also designated keratin hHb1) coupled to KLH

AA Sequence:

C-GISSLGVGSCGSS

Format:

State: Liquid Stabilized Antiserum

Preservatives: 0.09% Sodium Azide

Stabilizers: 0.5% BSA

Applications:

Immunoblotting: 1/2,000 for Western blotting (ECL method).

Immunofluorescence Microscopy on Frozen Sections.

Immunohistochemistry on Frozen Sections.

Immunohistochemistry on Paraffin Sections: 1/200 for 1h at RT (Trypsin and Microwave pretreatment is required).

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

The antiserum stains specifically Human hair Keratin K81 present in the hair cortex and hair cuticle and tumors derived therefrom.

Species: Human, Mouse.

Other species not tested.

Add. Information:

Centrifuge prior to opening!

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Langbein L, Rogers MA, Winter H, Praetzel S, Schweizer J. The catalog of human hair keratins. II. Expression of the six type II members in the hair follicle and the combined catalog of human type I and II keratins. J Biol Chem. 2001 Sep 14;276(37):35123-32.

Epub 2001 Jul 9. PubMed PMID: 11445569.

2. Langbein L, Spring H, Rogers MA, Praetzel S, Schweizer J. Hair keratins and hair follicle-specific epithelial keratins. *Methods Cell Biol.* 2004;78:413-51. PubMed PMID: 15646627.

3. Langbein L, Schweizer J. Keratins of the human hair follicle. *Int Rev Cytol.* 2005;243:1-78. PubMed PMID: 15797458.