

# Recombinant Human KRT81

**Cat. No.** KRT81-28044TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human KRT81 with N terminal proprietary tag; Predicted MW 48.33 kDa
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	202 amino acids
<b>Description</b>	<p>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.</p>
<b>Molecular Weight</b>	48.330kDa inclusive of tags
<b>Tissue specificity</b>	<p>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 ti</p>

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<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the intermediate filament family.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">KRT81 keratin 81 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">KRT81</a>
<b>Synonyms</b>	KRT81; keratin 81; keratin, hair, basic, 1 , KRTHB1; keratin, type II cuticular Hb1; hard keratin type II 1; Hb 1;
<b>Gene ID</b>	<a href="#">3887</a>
<b>mRNA Refseq</b>	<a href="#">NM_002281</a>
<b>Protein Refseq</b>	<a href="#">NP_002272</a>
<b>MIM</b>	<a href="#">602153</a>
<b>Uniprot ID</b>	<a href="#">Q14533</a>
<b>Chromosome</b>	12q13

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**Location**

**Function**

protein binding; structural molecule activity;

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