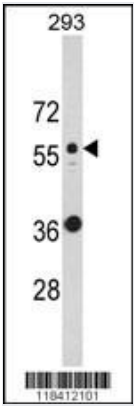
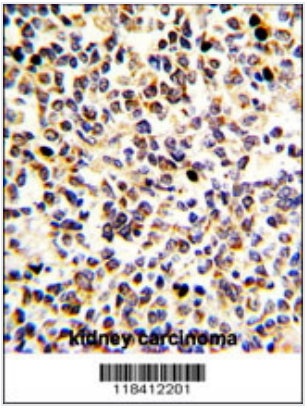
# KRT10 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

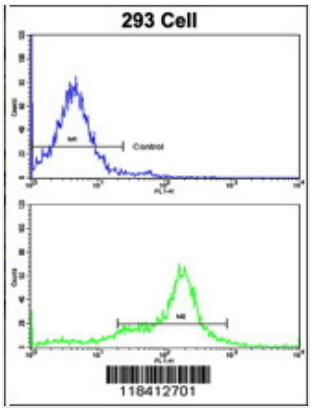
| | |
|---|---|
| **Product Name** | KRT10, Polyclonal Antibody |
| **Full Product Name** | KRT10, NT (Keratin, Type I Cytoskeletal 10, Cytokeratin-10, CK-10, Keratin-10, K10, KPP) (Biotin) |
| **Product Gene Name** | anti-KRT10 antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin. |
| **Purity/Purification** | Purified by Immunoaffinity chromatography. |
| **Specificity** | Recognizes human KRT10. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 58,827 Da |
| **Chromosome Location** | Chromosome: 17; NC_000017.10 (38974369..38978863, complement). Location: 17q21 |
| **OMIM** | 113800 |
| **3D Structure** | ModBase 3D Structure for P13645 |
| **Immunogen** | Synthetic peptide selected from the N-terminal region of human KRT10 (KLH). |
| **Conjugate** | Biotin |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-KRT10 antibody** | Antibodies; Keratin; Cytokeratin |
| **Applications Tested/Suitable for anti-KRT10 antibody** | Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB) |
| **Application Notes for anti-KRT10 antibody** | IHC: 1:50-1:100<br>ELISA: 1:1,000<br>WB: 1:100-1:500<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-KRT10 antibody** | MBS6484197 is an antibody targeting KRT10. Also known as KRT10, NT (Keratin, Type I Cytoskeletal 10, Cytokeratin-10, CK-10, Keratin-10, K10, KPP) (Biotin). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-KRT10 antibody** | 1. Morais, P., Eur J Dermatol 19(4), 333-336 (2009). 2. Barcelos, A.C., J. Cutan. Pathol. 36(6), 647-654 (2009). |
| **Other Notes** | Small volumes of anti-KRT10 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-KRT10 antibody**
Western blot analysis of KRT10 Antibody (N-term) in 293 cell line lysates (35ug/lane). KRT10 (arrow) was detected using the purified Pab.




**Immunohistochemistry (IHC) of anti-KRT10 antibody**
Formalin-fixed and paraffin-embedded human kidney carcinoma with KRT10 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.




**Flow Cytometry (FC/FACS) of anti-KRT10 antibody**
Flow cytometric analysis of 293 cells using KRT10 Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KRT10. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 195972866 |
| **NCBI GeneID** | 3858 |
| **NCBI Accession #** | NP_000412 |
| **UniProt Primary Accession #** | P13645 |
| **UniProt Secondary Accession #** | Q14664; Q8N175 |
| **UniProt Related Accession #** | P13645 |
| **GenBank Nucleotide #** | NM_000421 |
| **NCBI Official Full Name** | keratin, type I cytoskeletal 10 |
| **NCBI Official Synonym Full Names** | keratin 10 |
| **NCBI Official Symbol** | KRT10 |
| **NCBI Official Synonym Symbols** | BIE; EHK; K10; KPP; BCIE; CK10 |
| **UniProt Protein Name** | Keratin, type I cytoskeletal 10 |
| **UniProt Synonym Protein Names** | Cytokeratin-10; CK-10; Keratin-10 |

| | |
|---|---|
| **Protein Family** | Keratin |
| **UniProt Gene Name** | KRT10 |
| **UniProt Synonym Gene Names** | KPP; CK-10; K10 |
| **UniProt Entry Name** | K1C10_HUMAN |
| **NCBI Protein Information** | keratin, type I cytoskeletal 10; CK-10; keratin-10; cytokeratin 10 |
| **UniProt Comments for KRT10** | K10: a type I cytoskeletal keratin. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. There are two types of cytoskeletal and microfibrillar keratin: type I (acidic; 40-55 kDa) [K9 to K20] and type II (neutral to basic; 56-70 kDa) [K1 to K8]. Both a basic and an acidic keratin are required for filament assembly. Generally associates with K1.<br><br>Protein type: Cytoskeletal<br><br>Chromosomal Location of Human Ortholog: 17q21<br><br>Cellular Component: extracellular space; membrane; keratin filament; cytoplasm; intermediate filament; nucleus<br><br>Molecular Function: structural constituent of epidermis<br><br>Biological Process: keratinocyte differentiation<br><br>Disease: Erythroderma, Ichthyosiform, Congenital Reticular; Epidermolytic Hyperkeratosis; Ichthyosis, Cyclic, With Epidermolytic Hyperkeratosis |
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