

🕜 Tel: +1-301-363-4651 🛛 🖂 Email: cusabio@cusabio.com 🛛 🥭 Website: www.cusabio.com 🌘

KRT10 Recombinant Monoclonal Antibody

Product Code	CSB-RA582749A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P13645
Immunogen	A synthesized peptide derived from Human KRT10
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Signal transduction
Gene Names	KRT10
Clone No.	18B6

Image



IHC image of CSB-RA582749A0HU diluted at 1:50 and staining in paraffin-embedded human pancreati tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.34% DAB.



IHC image of CSB-RA582749A0HU diluted at 1:50 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.34% DAB.



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Description

The KRT10 recombinant monoclonal antibody production is a meticulously coordinated process. It commences with in vitro cloning, where KRT10 antibody genes are seamlessly incorporated into expression vectors. Subsequently, these vectors are introduced into host cells, facilitating the recombinant antibody's expression within a cell culture environment. Following expression, the KRT10 recombinant monoclonal antibody undergoes purification from the supernatant of transfected host cell lines through an affinity-chromatography purification method. This antibody only recognizes the human KRT10 protein. It has been tested for ELISA and IHC applications.

KRT10 plays a central role in maintaining the structural integrity of the epidermis, contributing to the formation of a protective skin barrier, and facilitating the process of epidermal differentiation and cornification. Its proper function is essential for healthy skin, and mutations in the KRT10 gene can lead to skin disorders characterized by skin fragility and abnormalities.