

Anti-KRT14 Antibody (5U966)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5U966
Purification:	Protein A

Applications

	Anti-KRT14 mouse monoclonal antibody at 1:500 dilution. -Lane A: A431 Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary
Verified Activity:	-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:52 kDa. -Observed band size:52 kDa
Application:	WB
Recommended	WB: 1:500-1:2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: center region of the Human KRT14
Antigen Species:	Human
Synonyms:	EBS1C;EBS3;EBS4;EBS1B;NFJ;EBS1D;EBS1A;EBS1;CK14;K14

Research Background

Cytokeratin 14, also known as Keratin 14 and K14, is a member of the keratin family. Cytokeratin 14 is a type I keratin. It is usually found as a heterotetramer with two keratin 5 molecules, a type II keratin. Together they form the cytoskeleton of epithelial cells. Cytokeratin 14 is mainly expressed in the basal layer. It is also strongly expressed in the outer root sheath of anagen follicles. Cytokeratin 14 and keratin 5 may have a role in the maintenance of cell proliferation potential in the basal layer of stratified epithelia, modulating phosphatidylinositol 3-kinase/Akt-mediated cell proliferation and/or Notch1-dependent cell differentiation. Cytokeratin 14 defect prevents it from working effectively with keratin 5 and interfering with the assembly of the keratin intermediate filament network. A disruption in this network makes keratinocytes fragile and prone to rupture. Minor trauma to the skin, such as rubbing or scratching, can cause these cells to break down, resulting in the formation of painful, fluid-filled blisters. Mutations in the K14 gene are also responsible for Naegeli-Franceschetti-Jadassohn syndrome and Dermatopathia

Pigmentosa Reticularis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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