

## Anti-KRT5 Antibody (6A459)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	6A459
Purification:	Protein A

### Applications

Verified Activity:	<p>1. Anti-KRT5 rabbit monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none"><li>-Lane A: A431 Whole Cell lysate.</li><li>-Lysates/proteins at 30 µg per lane.</li><li>-Secondary</li><li>-Goat Anti-Rabbit IgG H&amp;L (Dylight800) at 1/10000 dilution.</li><li>-Developed using the Odyssey technique.</li><li>-Performed under reducing conditions.</li></ul> <p>-Predicted band size:62 kDa.</p> <p>-Observed band size:62 kDa(We are unsure as to the identity of these extra bands.)</p> <p>2. Immunofluorescence staining of KRT5 in A431 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human KRT5 monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Cytoplasm .</p>
Application:	ICC/IF,WB
Recommended	WB: 1:500-1:2000; ICC-IF: 1:20-1:100

### 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 Cytokeratin 5/KRT5
Antigen Species:	Human
Synonyms:	KRT5A;EBS1;DDD1;K5;EBS2E;EBS2C;EBS2A;CK-5;DDD;CK5;EBS2B;EBS2;EBS2D;EBS2F

### Research Background

Keratin 5 is the major type II keratin of the basal cells of the epidermis and other stratified epithelia. With its type I partner, keratin 14, it constitutes a major fraction of the cytoskeleton of the basal cells. Epidermolysis bullosa simplex with mottled pigmentation (EBS-MP) is a rare dermatologic disorder of autosomal dominant inheritance with intraepidermal blistering after minor trauma, reticular hyperpigmentation unrelated to the blistering, nail dystrophy, and mild palmoplantar keratosis. Keratin 5 and keratin 14 are known to be essential for the basal

keratinocyte cytoskeleton and are defective in several forms of epidermolysis bullosa simplex. Recently, a 71C-->T transition in the keratin 5 gene (KRT5) causing a P24L substitution was identified in some patients with EBS-MP.

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