

# Cytokeratin 14 (ABT047) IHC kit

CatalogNo: IHCM6161

## Key Features

IgG2b,Kappa

Host Species <ul> <li>Mouse</li> </ul>	<ul><li>Reactivity</li><li>Human,Mouse,Rat,</li></ul>	Applications <ul> <li>IHC</li> </ul>
Isotype		

**Recommended Dilution Ratios** 

#### **Storage**

**Storage\*** 2°C to 8°C/1 year

#### **Basic Information**

Clonality	Monoclonal
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Clone Number ABT047

#### Immunogen Information

Immunogen Synthesized peptide derived from human CK14 AA range: 400-472

**Specificity** The antibody can specifically recognize human CK14 protein. In immunohistochemistry on formalin-fixed, paraffin-embedded tissue sections, the antibody specifically labels the basal cell of squamous epithelial cells and glandular epithelia, myoepithelium and mesothelial cells.

### Target Information

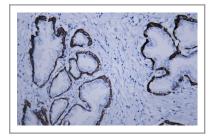
Gene name KRT14

Protein Name	Cytokeratin-14			
	Organism	Gene ID	UniProt ID	
	Human	<u>3861;</u>	<u>P02533;</u>	
Cellular Localization	Cytoplasmic, Membranous			
Tissue specificity	Expressed in the corneal epithelium (at protein level) (PubMed:26758872). Detected in the basal layer, lowered within the more apically located layers specifically in the stratum spinosum, stratum granulosum but is not detected in stratum corneum. Strongly expressed in the outer root sheath of anagen follicles but not in the germinative matrix, inner root sheath or hair (PubMed:9457912). Found in keratinocytes surrounding the club hair during telogen (PubMed:9457912).			
Function	Disease:Defects in KRT14 are a cause of epidermolysis bullosa simplex Dowling-Meara type (DM-EBS) [MIM:131760]. DM-EBS is a severe form of intraepidermal epidermolysis bullosa characterized by generalized herpetiform blistering, milia formation, dystrophic nails, and mucous membrane involvement.,Disease:Defects in KRT14 are a cause of epidermolysis bullosa simplex Koebner type (K-EBS) [MIM:131900]. K-EBS is a form of intraepidermal epidermolysis bullosa characterized by generalized skin blistering. The phenotype is not fundamentally distinct from the Dowling-Meara type, althought it is less severe.,Disease:Defects in KRT14 are a cause of epidermolysis bullosa simplex Weber-Cockayne type (WC-EBS) [MIM:131800]. WC-EBS is a form of intraepidermal epidermolysis bullosa characterized by blistering limited to palmar and plantar areas of the skin.,Disease:Defects in KRT14 are the cause of dermatopathia pigmentosa reticularis (DPR) [MIM:125595]. DPR is a rare ectodermal dysplasia characterized by lifelong persistant reticulate hyperpigmentation, noncicatricial alopecia, and nail dystrophy.,Disease:Defects in KRT14 are the cause of fermolysis bullosa characterized by localized blistering on the dorsal, lateral and plantar surfaces of the feet.,Disease:Defects in KRT14 are the cause of Naegeli-Franceschetti-Jadassohn syndrome (NFJS) [MIM:161000]; also known as Naegeli syndrome. NFJS is a rare autosomal dominant form of ectodermal dysplasia. The cardinal features are absence of dermatoglyphics (fingerprints), reticular cutaneous hyperpigmentation (starting at about the age of 2 years without a preceding inflammatory stage), palmoplantar keratoderma, hypohidrosis with diminished sweat gland function and discomfort provoked by heat, nail dystrophy, and tooth enamel defects, Function:The nonhelical tail domain is involved in promoting KRT5-KRT14 filaments to self-organize into large bundles and enhances the mechanical properties involved in resilience of keratin intermediate filament family.,subcellular location:Expressed in			

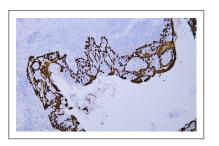
# Validation Data



Human cervical squamous cell carcinoma tissue was stained with Anti-Cytokeratin 14 (ABT047) Antibody



Human prostate tissue was stained with Anti-Cytokeratin 14 (ABT047) Antibody



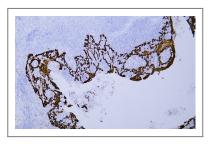
Human tonsil tissue was stained with Anti-Cytokeratin 14 (ABT047) Antibody



Human cervical squamous cell carcinoma tissue was stained with Anti-Cytokeratin 14 (ABT047) Antibody



Human prostate tissue was stained with Anti-Cytokeratin 14 (ABT047) Antibody



Human tonsil tissue was stained with Anti-Cytokeratin 14 (ABT047) Antibody

### **Contact information**

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Please scan the QR code to access additional product information: **Cytokeratin 14** (ABT047) IHC kit

For Research Use Only. Not for Use in Diagnostic Procedures.

Antibody | ELISA Kits | Protein | Reagents