

Product datasheet for **AP06195PU-M**

Cytokeratin 14 (KRT14) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on paraffin sections 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminus of Human Cytokeratin 14
Specificity:	This antibody detects endogenous levels of Keratin 14 protein. (region surrounding Ser5)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 52 kDa
Gene Name:	keratin 14
Database Link:	Entrez Gene 3861 Human P02533



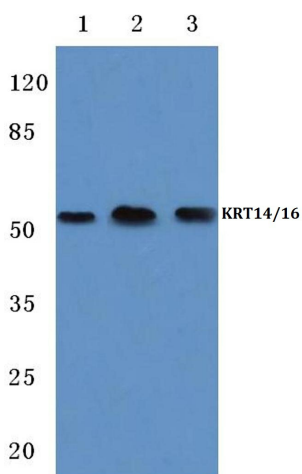
[View online »](#)

Background:

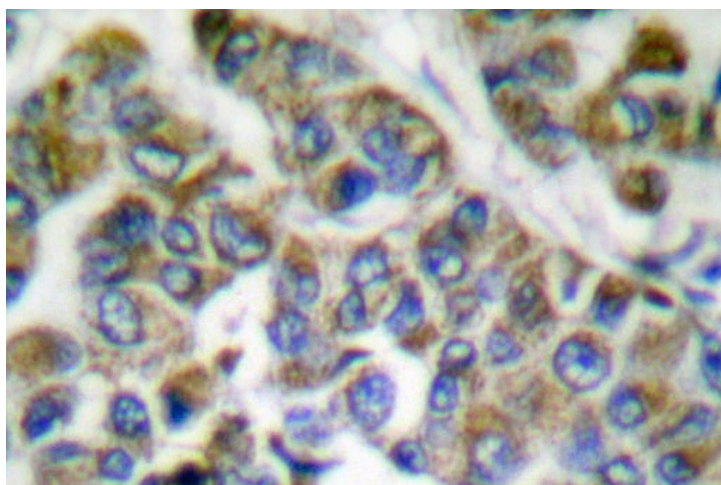
Cytokeratins comprise a diverse group of intermediate filament proteins (IFPs) that are expressed in pairs in both keratinized and non-keratinized epithelial tissue, where they constitute up to 85% of mature keratinocytes in the vertebrate epidermis. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. The α -helical coiled-coil dimers associate laterally end-to-end to form 10 nm diameter filaments. Cytokeratins are useful markers of tissue differentiation, and in addition they aid in the characterization of malignant tumors. In Bowen's disease, the characteristic malignancy of the epidermis exhibits distinct expression patterns of Cytokeratin 14. Mutations in the gene encoding human Cytokeratin 14 lead to epidermolysis bullosa simplex, an inherited skin disorder characterized by skin blistering due to basal keratinocyte fragility.

Synonyms:

Cytokeratin-14, CK14, Keratin 14, K14, KRT14

Product images:


Western blot (WB) analysis of Cytokeratin 14/16 antibody at 1/500 dilution: Lane 1: MCF-7 whole cell lysate Lane 2: Mouse brain tissue lysate Lane 3: Rat brain tissue lysate



Immunohistochemistry (IHC) analyzes of Keratin 14 antibody in paraffin-embedded human breast carcinoma tissue.