

## Product datasheet for **AP20622PU-N**

### Cytokeratin 14 (KRT14) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on paraffin sections:</b> 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This detects endogenous levels of Cytokeratin 14 protein. (region surrounding Tyr151)
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; 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:	<a href="#">Entrez Gene 16664 Mouse</a> <a href="#">Entrez Gene 287701 Rat</a> <a href="#">Entrez Gene 3861 Human</a> <a href="#">P02533</a>



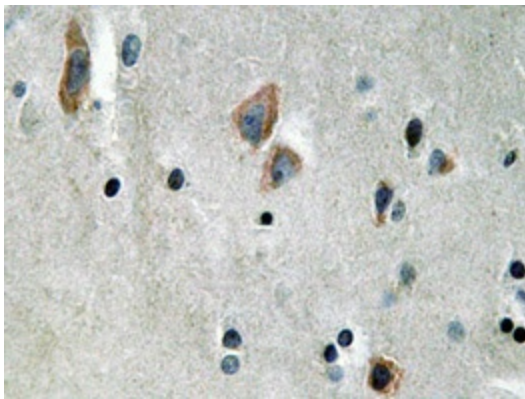
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**Background:**

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 alpha-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. The gene encoding human cytokeratin 14 maps to chromosome 17q12- 21. Mutations in this gene 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:**

Immunohistochemistry analyzes of Cytokeratin 14 antibody (Cat.-No.: AP20622PU-N) in paraffin-embedded human brain tissue.