

Product datasheet for **AP09546SU-N**

Cytokeratin 16 (KRT16) Guinea Pig Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Immunofluorescence. Immunohistochemistry on Frozen and Paraffin Sections: 1/100-1/200. Incubation Time: 1h at RT. Positive Control: Rete ridges of Human foot sole epidermis, psoriatic skin.
Reactivity:	Human, Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of Human keratin K16 (formerly also designated cytokeratin 16; C-KE QSS SSF SQG QSS), coupled to KLH
Specificity:	MW 48,000 (pI 5.1) intermediate filament polypeptide, keratin K16, detected by immunohistochemistry in psoriatic skin, in the rete ridges of foot sole epidermis, in tongue, esophagus, exocervix and in squamous cell carcinoma of skin, tongue and cervix. In the hair follicle, staining was restricted to the outer root sheath. Completely non-reactive were cells of non-stratified epithelia (e.g. liver, colon).
Formulation:	State: Serum State: Liquid Serum Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	keratin 16
Database Link:	<u>Entrez Gene 16666 Mouse</u> <u>Entrez Gene 3868 Human P08779</u>



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Background:

Keratin 16 is expressed in keratinocytes, which are undergoing rapid turnover in the suprabasal region (also known as hyperproliferation-related keratins). Keratin 16 is absent in normal breast tissue and in noninvasive breast carcinomas. Only 10% of the invasive breast carcinomas show diffuse or focal positivity. Reportedly, a relatively high concordance was found between the carcinomas immunostaining with the basal cell and the hyperproliferation-related keratins, but not between these markers and the proliferation marker Ki-67. This supports the conclusion that basal cells in breast cancer may show extensive proliferation, and that absence of Ki-67 staining does not mean that (tumor) cells are not proliferating.

Two cytokeratins, 6 and 16, are expressed when keratinocytes are undergoing rapid turnover in various pathological states, wound healing, psoriasis and some carcinomas

Synonyms:

Cytokeratin-16, Keratin-16, Keratin 16, KRT16, KRT16A, CK16, K16