

Product datasheet for **AP33142SU-N**

Cytokeratin 4 (KRT4) Guinea Pig Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Immunoblotting: 1/3000 for Western blotting (ECL). Cytological material. Immunofluorescence on Frozen Sections: 1/200. Immunohistochemistry on Paraffin Sections: 1/100 after microwave treatment. <i>Incubation Time:</i> 1h at RT, extended with paraffin sections. <i>Positive Control:</i> Squamous epithelium of esophagus, gingiva, palate, vagina (staining all suprabasal layers).
Reactivity:	Human, Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	Synthetic peptide (C-KIISTTTLNKRR) of Human keratin K4 coupled to KLH
Specificity:	This antibody recognizes Human type II (basic) keratin K4 (Mr 59 000), formerly also designated cytokeratin 4. This antibody is an excellent marker to discriminate non-cornified squamous epithelia (esophagus, vagina, gingival) from those of different origin. Recognizes keratin K4 in non-cornifying squamous epithelia. Keratin K4 is mostly present in combination with keratin K13. In contrast to keratin K13, the superficial cells of the cornea are reactive with keratin K4. The antibody also stains ciliated pseudo-stratified epithelium of bronchi and, focally, ductal epithelial cells.
Formulation:	State: Serum State: Liquid Stabilized Antiserum Stabilizer: 0.5% BSA Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	keratin 4



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Database Link: [Entrez Gene 3851 Human P19013](#)

Background: Intermediate filaments are abundant cytoplasmic structural proteins in most vertebrate cells. Cytokeratins, a group comprised of at least 29 different proteins are characteristic of epithelial and trichocytic cells. Cytokeratin 4 is a member of the type II, neutral-to-basic subfamily. It is a 59 kD polypeptide differentially expressed in various human tissues. Cytokeratin 4 can be detected by biochemical or immunohistochemical means in adult non-cornified squamous epithelium such as that of the superficial and intermediate cells of the esophagus, exocervix, tongue, vagina, larynx, pharynx, epiglottis, and anus as well as in the superficial cells of the cornea. In addition, its presence was demonstrated in suprabasal cells of the urinary bladder transitional epithelium, in single cells and cell groups of sweat glands and prostatic ducts and in cylindrical ciliated bronchial cells. Cytokeratin 4 may be detected in squamous cell carcinomas derived from several non-cornified stratified epithelia.

Synonyms: KRT4, CYK4, Cytokeratin-4, CK4, Keratin-4, K4