

BP5077**Polyclonal Antibody to Cytokeratin 15 - Serum**

Alternate names:	CK-15, Cytokeratin-15, K15, KRT15, KRTB, Keratin, Keratin 15, Keratin-15, Type I Cytoskeletal 15
Quantity:	0.1 ml
Background:	Keratin 15 is a type I keratin without a defined type II partner. Keratin 15 is expressed primarily in the basal keratinocytes of stratified tissues, including the fetal epidermis and fetal nail. Expression of keratin 15 is downregulated in some hyperproliferating situations, such as psoriasis and hypertrophic scars. Because keratinocytes in psoriasis and hypertrophic scars are activated, it is suggested that keratin 15 expression is not compatible with keratinocyte activation and the keratin 15 gene is downregulated to maintain the activated phenotype.
Uniprot ID:	P19012
NCBI:	NP_002266.2
GeneID:	3866
Host:	Guinea Pig
Immunogen:	Synthetic peptide of Human Keratin K15 (formerly also designated cytokeratin 15), coupled to KLH. AA Sequence: SNFHINVEESVDGQ-C
Format:	State: Liquid Serum Preservatives: 0.09% Sodium Azide
Applications:	Immunofluorescence Microscopy on Frozen Sections. Immunohistochemistry on Paraffin Sections (after microwave treatment or Trypsin). Working Dilution: 1/100-1/200 for Immunohistochemistry. Incubation Time: 1h at RT. Positive Control: Sweat glands of human skin (e.g. foot sole). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	MW 50,000 (pI 4.9) intermediate filament polypeptide, keratin K15, detected by Immunohistochemistry in basal cells of stratified epithelia (including epidermis, tongue, esophagus, exocervix) and complex stratified epithelia (e.g. bronchial epithelium), in luminal epithelia of mammary, salivary and sweat gland. In the hair follicle, staining was restricted to the basal cell layer of the outer root sheath. Completely non-reactive were cells of liver, colon. Species: Human and Mouse. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. Shelf life: one year from despatch.

Product Citations:**Purchased from Acris:**

1. Torkamani, N, Rufaut, NW, Jones, L, Sinclair, R. Epidermal Cells Expressing Putative Cell Markers in Nonglabrous Skin Existing in Direct Proximity with the Distal End of the Arrector Pili Muscle. *Stem Cells Int*, 1286315, 2016. PubMed PMID: 27375744.

General Readings:

1. Jih DM, Lyle S, Elenitsas R, Elder DE, Cotsarelis G. Cytokeratin 15 expression in trichoepitheliomas and a subset of basal cell carcinomas suggests they originate from hair follicle stem cells. *J Cutan Pathol*. 1999 Mar;26(3):113-8. PubMed PMID: 10235375.

2. Leube RE, Bader BL, Bosch FX, Zimbelmann R, Achtstaetter T, Franke WW. Molecular characterization and expression of the stratification-related cytokeratins 4 and 15. *J Cell Biol*. 1988 Apr;106(4):1249-61. PubMed PMID: 2452170.