

## Product datasheet for **BP5010**

### Cytokeratin 15 (KRT15) Guinea Pig Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Immunohistochemistry on frozen sections: 1/100 - 1/200. Western blot: 1/2000 (ECL). Incubation time: 1h at RT.
Reactivity:	Human
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	C-terminal tail region (including parts of the rod domain) of human recombinant keratin K15
Specificity:	Mr 50 kD (pI 4.9) intermediate filament polypeptide, keratin K15 (formerly also designated cytokeratin 15), detected by immunofluorescence microscopy in basal cells of stratified epithelia (including epidermis, tongue, esophagus, exocervix) and complex stratified epithelia (e.g. broncheal epithelium), in luminal epithelia of mammary, salivary and sweat gland. In the hair follicle, staining was restricted to the outermost cell layer of the outer root sheath; within the hair follicle several cell layers of the hair follicle bulb were positive with antiserum gp 15.1. In human fetal tissues keratin K15 was localized in basal cells of epidermis, lung, trachea, tracheal glands and esophagus. In fetal hair anlagen, all cells were positive with antiserum gp 15.1, suggesting that keratin K15 is preferentially expressed in epithelial stem cells. Completely unreactive were cells of liver, colon, kidney, urinary bladder, pancreas and lung alveolus. In tumors, gp15.1 is reactive with squamous skin and lung carcinomas and with a significant subgroup of invasive ductal breast carcinomas, especially tumors with higher grade malignancy (Heid, Bartek, Leube, Moll, Kaufmann & Franke, unpublished results).
Formulation:	State: Serum State: Liquid serum containing 0.09% sodium azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	keratin 15



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**Database Link:** [Entrez Gene 3866 Human P19012](#)

**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.

**Synonyms:** Cytokeratin-15, CK-15, K15, Keratin-15, Keratin 15, KRTB, KRT15