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AP06196PU-N Polyclonal Antibody to Cytokeratin 15 - Aff - Purified

Alternate names: CK-15, Cytokeratin-15, K15, KRT15, KRTB, Keratin, Keratin 15, Keratin-15, Type I Cytoskeletal 15

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: Cytokeratin 15 (CK15, K15, K1CO, keratin15, type I cytoskeletal 15) is an intermediate filament (IF) type I protein that is responsible for the mechanical integrity of epithelial cells. Keratin family members are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains, and are clustered in a region on chromosome 17q21.2. Cytokeratin 15 is a specific marker of stem cells of the hair-follicle bulge and may be a useful marker for diagnosis between basal cell carcinoma and trichoepithelioma. Trichoblastoma are benign neoplasms of follicular differentiation frequently found in nevus sebaceus. Many morphologic features are shared with nodular basal cell carcinoma, sometimes rendering a diagnosis difficult. Trichoblastoma and BCC show variable expression of Cytokeratin 15 and Cytokeratin 19, and absence of hair keratins.

Uniprot ID: P19012

NCBI: NP_002266.2

GeneID: 3866

Host: Rabbit

Immunogen: Synthetic peptide, corresponding to the N-terminus of Human Cytokeratin 15.

Format: **State:** Liquid purified Ig fraction (> 95% pure by SDS-PAGE).
Purification: Affinity Chromatography using epitope-specific immunogen.
Buffer System: Phosphate buffered saline (PBS), pH~7.2
Preservatives: 0.05% Sodium Azide

Applications: **Western blot:** 1/500-1/1000.
Immunohistochemistry on Paraffin Sections: 1/50-1/200.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight: ~ 49 kDa

Specificity: This antibody detects endogenous levels of Keratin 15 protein.
(region surrounding Thr12)

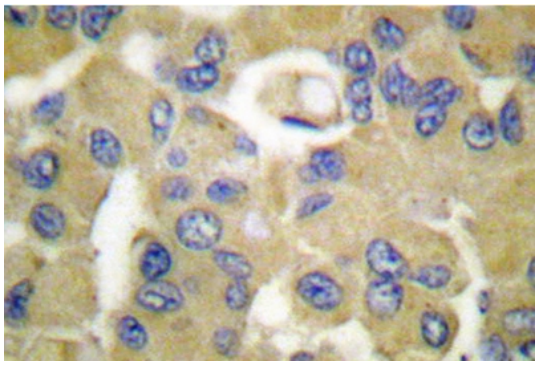
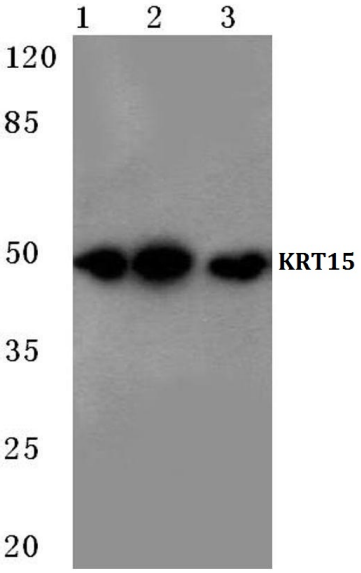
Species Reactivity: **Tested:** Human.
Expected from sequence similarity: Mouse and Rat.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Pictures:

Immunohistochemistry (IHC) analyzes of Keratin 15 antibody (Cat.-No.: AP06196PU-N) in paraffin-embedded human breast carcinoma tissue.



Western blot (WB) analysis of Cytokeratin 15 antibody (Cat.-No.: AP06196PU-N) at 1/500 dilution:
Lane1: HepG2 whole cell lysate
Lane2: Mouse testis tissue lysate
Lane3: Rat testis tissue lysate