

bs-1712R**[Primary Antibody]****Pan Cytokeratin Rabbit pAb****Bioss**
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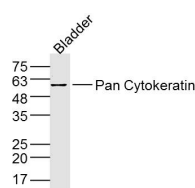
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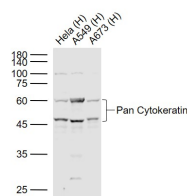
— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**GenelD:** 3860**Target:** Pan Cytokeratin**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

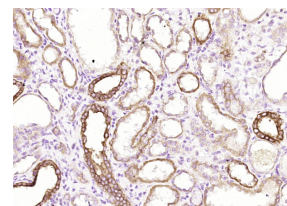
Background: Cytokeratins are proteins of keratin-containing intermediate filaments found in the intracytoplasmic cytoskeleton of epithelial tissue. The cytokeratins are encoded by a family encompassing 30 genes. Among them, 20 are epithelial genes and the remaining 10 are specific for trichocytes. In the cytoplasm, the keratin filaments conform a complex network which extends from the surface of the nucleus to the cell membrane. Numerous accessory proteins are involved in the genesis and maintenance of such structure. This association between the plasma membrane and the nuclear surface provides important implications for the organization of the cytoplasm and cellular communication mechanisms. Apart from the relatively static functions provided in terms of supporting the nucleus and providing tensile strength to the cell, the cytokeratin networks undergo rapid phosphate exchanges mediated depolymerization, with important implications in the more dynamic cellular processes such as mitosis and post-mitotic period, cell movement and differentiation. Cytokeratins interact with desmosomes and hemidesmosomes, thus collaborating to cell-cell adhesion and basal cell-underlying connective tissue connection.

Applications: **WB** (1:500-2000)**IHC-P** (1:100-2000)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1µg /test)**ICC/IF** (1:100)**Reactivity:** Human, Mouse, Rat, Cow
(predicted: Rabbit, Pig, Chicken, Dog, Horse)**Predicted MW:** 42-64 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

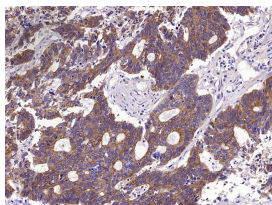
Sample: Bladder (Mouse) Lysate at 40 µg
Primary: Anti-Pan Cytokeratin (bs-1712R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42-64 kD Observed band size: 60 kD



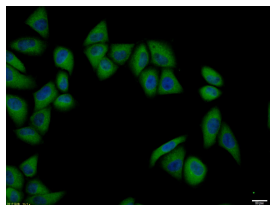
Sample: Lane 1: HeLa (Human) Cell Lysate at 30 µg
Lane 2: A549 (Human) Cell Lysate at 30 µg
Lane 3: A673 (Human) Cell Lysate at 30 µg
Primary: Anti-Pan Cytokeratin (bs-1712R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 42-64 kD Observed band size: 46,60 kD



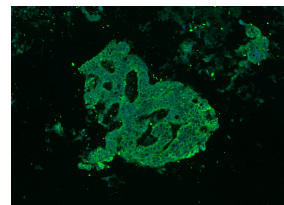
Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Pan Cytokeratin) Polyclonal Antibody, Unconjugated (bs-1712R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



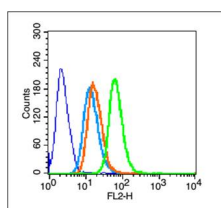
Paraformaldehyde-fixed, paraffin embedded (Human stomach carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Pan Cytokeratin) Polyclonal Antibody, Unconjugated (bs-1712R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



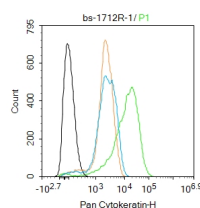
Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Pan Cytokeratin) polyclonal Antibody, Unconjugated (bs-1712R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Pan Cytokeratin) Polyclonal Antibody, Unconjugated (bs-1712R) at 1:200 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-AF488) for 90 minutes, and DAPI for nuclei staining.



Blank control (blue line): HeLa (blue). Primary Antibody (green line): Rabbit Anti-Pan Cytokeratin antibody (bs-1712R) Dilution: 1µg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 70% methanol (Overnight at 4°C) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control (black line) :A549. Primary Antibody (green line): Rabbit Anti-Pan Cytokeratin antibody (bs-1712R) Dilution:1µg/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488 Dilution: 0.5µg/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=18.952]** Mahmoud Labibet al. Tracking the expression of therapeutic protein targets in rare cells by antibody-mediated nanoparticle labelling and magnetic sorting. Nat Biomed Eng. 2020 Jul 27. FCM ;Human. 32719513
- **[IF=13.3]** Enhang Lu. et al. Establishment of human minor salivary gland organoids in laminin-GelMA hydrogel from healthy individuals and Sjögren's disease patients. CHEM ENG J. 2025 Jan;503:158257 IF ;Human. 10.1016/j.cej.2024.158257
- **[IF=9.685]** Chen Mingyu. et al. Identification of RAC1 in promoting brain metastasis of lung adenocarcinoma using single-cell transcriptome sequencing. CELL DEATH DIS. 2023 May;14(5):1-14 IHC ;Mouse. 37202394
- **[IF=9.417]** Yan Wu. et al. A mesenchymal stem cell-derived nanovesicle-biopotentiated bovine serum albumin-bridged gelatin hydrogel for enhanced diabetic wound therapy. MATER DESIGN. 2023 Jun;230:111960 IHC ;Mouse. 10.1016/j.matdes.2023.111960
- **[IF=6.7]** Jian Shi. et al. Mechanistic elucidation of QiJu-DiHuang Wan in management of age-related dry eye through metabolomics and network pharmacology. PHYTOMEDICINE. 2024 Sep;132:155884 IF ;Rat. 39053245