

Anti-Cytokeratin, pan (Epithelial Marker) Antibody

Catalog Number: M30944

About KRT

Twenty human keratins are resolved with two-dimensional gel electrophoresis into acidic (pI 6.0) subfamilies. This antibody cocktail recognizes acidic (Type I or LMW) and basic (Type II or HMW) cytokeratins, with 67kDa (CK1); 64kDa (CK3); 59kDa (CK4); 58kDa (CK5); 56kDa (CK6); 55kDa (CK7); 52kDa (CK8); 56.5kDa (CK10); 53kDa (CK13); 50kDa (CK14); 50kDa (CK15); 48kDa (CK16); 46kDa (CK17); 45kDa (CK18) and 40kDa (CK19). Many studies have shown the usefulness of keratins as markers in cancer research and tumor diagnosis. KRT-PAN is a broad-spectrum anti pan-cytokeratin antibody cocktail, which differentiates epithelial tumors from non-epithelial tumors e.g. squamous vs. adenocarcinoma of the lung, liver carcinoma, breast cancer, and esophageal cancer. It is useful in characterizing the source of various neoplasms and to study the distribution of cytokeratin containing cells in epithelia during normal development and during the development of epithelial neoplasms. This antibody stains cytokeratins present in normal and abnormal human tissues and shows high sensitivity in the recognition of epithelial cells and carcinomas.

Overview

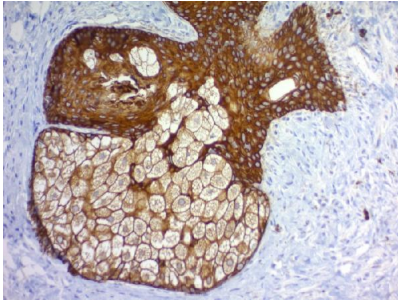
Product Name	Anti-Cytokeratin, pan (Epithelial Marker) Antibody
Reactive Species	Chicken, Cow, Dog, Human, Monkey, Mouse, Rabbit, Rat, Cat
Description	Boster Bio Anti-Cytokeratin, pan (Epithelial Marker) Antibody (Catalog # M30944). Tested in Flow Cytometry, IF, WB, IHC applications. This antibody reacts with Human, Monkey, Cow, Dog, Rabbit, Mouse, Rat, Cat, Chicken.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, WB
Clonality	Monoclonal Clone: PAN-CK (Cocktail)
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	Q7Z794 (KRT77) & Q01546 (KRT76)

Technical Details

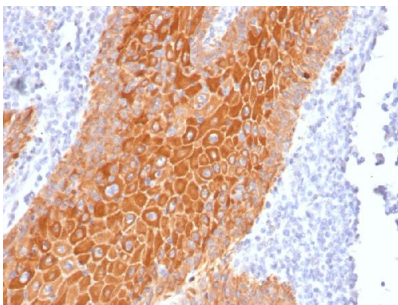
Immunogen	Human epidermal keratins
Predicted Reactive Species	Pig, Rabbit
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG s, kappa

Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (0.5-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Western Blot (0.5-2ug/ml for 2 hours at RT)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

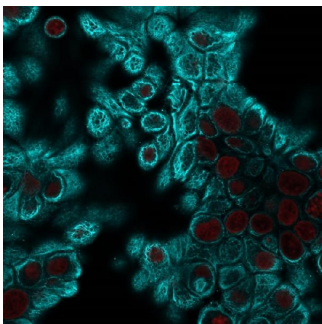
Anti-Cytokeratin, pan (Epithelial Marker) Antibody (M30944) Images



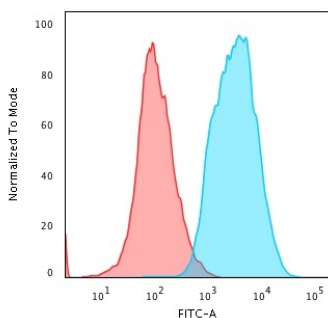
Formalin-fixed, paraffin-embedded human basal cell carcinoma stained with Anti-Cytokeratin, Pan Mouse Monoclonal Antibody (PAN-CK).



Formalin-fixed, paraffin-embedded human squamous cell carcinoma stained with Anti-Cytokeratin, Pan Mouse Monoclonal Antibody (PAN-CK).



Confocal immunofluorescent analysis of HeLa cells using Anti-Cytokeratin, Pan Mouse Monoclonal Antibody (PAN-CK) followed by goat anti-mouse IgG-CF488 (cyan). Nuclei are counterstained with NucSpot (red).



Flow cytometric analysis of human HeLa cells. Anti-Cytokeratin, Pan Mouse Monoclonal Antibody (PAN-CK) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

1 Publications Citing This Product

1. PubMed ID: 29048644, Bu S, Zhang Q, Wang Q, Lai D. Int J Oncol. 2017 Nov;51(5):1405-1414. doi: 10.3892/ijo.2017.4123. Epub 2017 Sep 14. Human amniotic epithelial cells inhibit growth of epithelial ovarian cancer cells via TGF-beta1-mediated cell cycle arrest

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