Datasheet for ABIN112348

anti-Cytokeratin 5 antibody

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Overview

Quantity:	0.1 mg
Target:	Cytokeratin 5 (KRT5)
Reactivity:	Human, Mouse, Rat, Pig, Dog, Hamster, Rabbit, Cat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytokeratin 5 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Cytokeratins from a human lung cancer cell line (MR21).
Clone:	RCK102
Isotype:	IgG1
Specificity:	RCK102 is a Cytokeratin antibody reacting with Cytokeratin 5 and Cytokeratin 8. This monoclonal antibody recognizes virtually all epithelial tissues and carcinomas.
Cross-Reactivity (Details):	Also reacts to: KRT8
Purification:	Purified

Target Details

Target:	Cytokeratin 5 (KRT5)

Target Details

Alternative Name:	Cytokeratin 5 (KRT5 Products)
Background:	Cytokeratins are a subfamily of intermediate filament proteins and are characterized by a remarkable biochemical diversity, represented in human epithelial tissues by at least 20 different polypeptides. They range in molecular weight between 40 kDa and 68 kDa and isoelectric pH between 4.9-7.8. The individual human cytokeratins are numbered 1 to 20. The various epithelia in the human body usually express cytokeratins which are not only characteristic of the type of epithelium, but also related to the degree of maturation or differentiation within an epithelium. Cytokeratin subtype expression patterns are used to an increasing extent in the distinction of different types of epithelial malignancies. The cytokeratin antibodies are not only of assistance in the differential diagnosis of tumors using immunohistochemistry on tissue sections, but are also a useful tool in cytopathology and flow cytometric assays.Synonyms: 58 kDa Cytokeratin, CK5, Cytokeratin-5, K5, KRT5, Keratin 5, Keratin type II cytoskeletal 5, Keratin-5
Gene ID:	3852
NCBI Accession:	NP_000415
UniProt:	P13647

Application Details

Application Notes:	RCK102 is suitable for Immunoblotting, Immunocytochemistry, Immunohistochemistry onfrozen sections and paraffin-embedded tissues and Flow cytometry. Recommended dilutions: 1/100-1/200 for Flow cytometry, and for Immunohistochemistrywith avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and1/100-1/1000 for Immunoblotting applications. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, 0.09 % Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

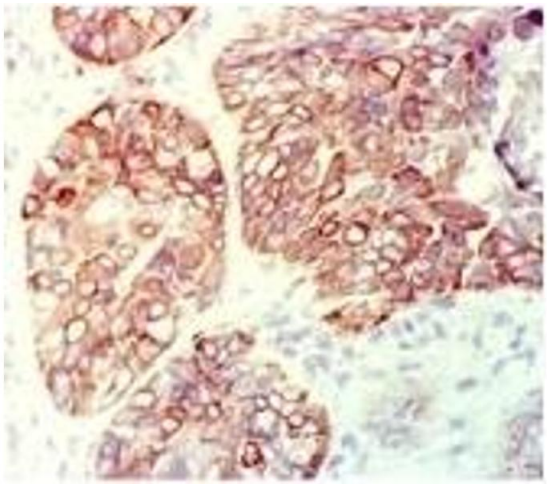
Handling

	should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the original vial at 2-8 °C. After reconstitution store undiluted (in aliquots) at -20 °C.

Publications

Product cited in:	Choi, Lee, Kim, Eom, Jeong, Lee, Park, Jeong, Kwon: "Hyaluronic Acid Coating on Hydrophobic Tracheal Scaffold Enhances Mesenchymal Stem Cell Adhesion and Tracheal Regeneration." in: **Tissue engineering and regenerative medicine**, Vol. 18, Issue 2, pp. 225-233, (2021) (PubMed).

Images



Immunohistochemistry

Image 1. RCK102 Cytokeratin staining of a human squamous cell carcinoma of the lung.