Datasheet for ABIN335326

anti-Cytokeratin 7 antibody

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Overview

Quantity:	0.1 mg
Target:	Cytokeratin 7 (KRT7)
Reactivity:	Human, Rat, Mouse, Dog, Pig, Hamster, Cat, Zebrafish (Danio rerio)
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytokeratin 7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	RCK105 is a mouse monoclonal IgG1 antibody derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with cytokeratins from the human bladder carcinoma cell line T24.
Clone:	RCK105
Isotype:	IgG1
Specificity:	Human, mouse, rat, hamster, canine, swine and feline.
Purification:	Purified

Target Details

Target:	Cytokeratin 7 (KRT7)
Alternative Name:	Cytokeratin 7 / Keratin K7 (KRT7 Products)

Target Details

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.

Application Details

Application Notes:	RCK105 reacts exclusively with cytokeratin 7 which is present in a subgroup of glandular epithelia and their tumors, as well as transitional epithelium and transitional carcinoma. RCK105 is suitable for immunoblotting, immunocytochemistry, immunohistochemistry on frozen sections and flow cytometry. Optimal antibody dilution should be determined by titration, recommended range is 1:100 - 1:200 for flow cytometry, and for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.
Restrictions:	For Research Use only

Handling

Storage:	4 °C

Publications

Product cited in:	Ogawa, Saeki, Igura, Hayashi: "Complementary expression and repulsive signaling suggest that EphB2 and ephrin-B1 are possibly involved in epithelial boundary formation at the squamocolumnar junction in the rodent stomach." in: **Histochemistry and cell biology**, (2013) (PubMed). Bauwens, De Groot, Ramaekers, Veldman, Huizing: "Expression of intermediate filament proteins in the adult human vestibular labyrinth." in: **The Annals of otology, rhinology, and laryngology**, Vol. 101, Issue 6, pp. 479-86, (1992) (PubMed).

Publications

Smedts, Ramaekers, Troyanovsky, Pruszczynski, Link, Lane, Leigh, Schijf, Vooijs: "Keratin expression in cervical cancer." in: **The American journal of pathology**, Vol. 141, Issue 2, pp. 497-511, (1992) (PubMed).

Ivanyi, Minke, Hageman, Groeneveld, van Doornewaard: "Patterns of expression of feline cytokeratins in healthy epithelia and mammary carcinoma cells." in: **American journal of veterinary research**, Vol. 53, Issue 3, pp. 304-14, (1992) (PubMed).

Ramaekers, van Niekerk, Poels, Schaafsma, Huijsmans, Robben, Schaart, Vooijs: "Use of monoclonal antibodies to keratin 7 in the differential diagnosis of adenocarcinomas." in: **The American journal of pathology**, Vol. 136, Issue 3, pp. 641-55, (1990) (PubMed).

There are more publications referencing this product on: Product page

Images

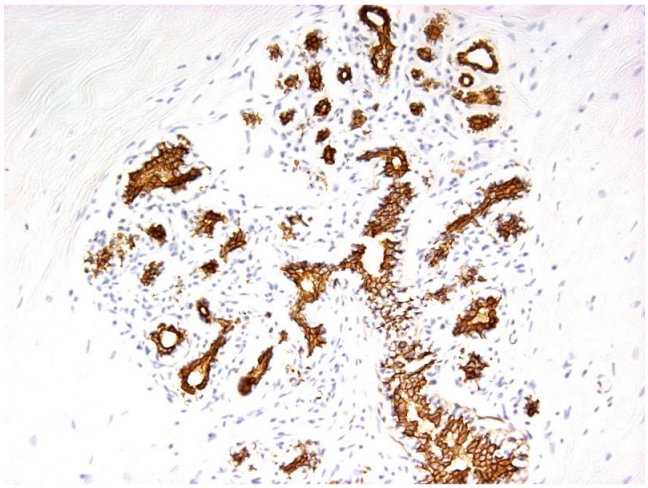

Image 1.