



Datasheet for ABIN335339
anti-Cytokeratin 13 antibody



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1 Image

8 Publications

Overview

Quantity:	0.1 mg
Target:	Cytokeratin 13 (KRT13)
Reactivity:	Human, Zebrafish (Danio rerio)
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytokeratin 13 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	1C7 is a mouse monoclonal IgG2a antibody derived by fusion of SP2/0 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with a cytokeratin preparation extracted from human esophagus.
Clone:	1C7
Isotype:	IgG2a
Specificity:	Human.
Purification:	Purified

Target Details

Target:	Cytokeratin 13 (KRT13)
Alternative Name:	Cytokeratin 13 / Keratin K13 (KRT13 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: 1C7 reacts exclusively with cytokeratin 13 which is present in non-cornified squamous epithelia, except cornea, and transitional epithelial regions, with the exception of basal cell layers of some stratified epithelia. 1C7 is suitable for immunoblotting and immunohistochemistry on frozen tissues. Optimal antibody dilution should be determined by titration, recommended range is 1:25 - 1:200 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

Concentration: 1 mg/ml

Storage: 4 °C

Publications

Product cited in: van Dorst, van Muijen, Litvinov, Fleuren: "The limited difference between keratin patterns of squamous cell carcinomas and adenocarcinomas is explicable by both cell lineage and state of differentiation of tumour cells." in: **Journal of clinical pathology**, Vol. 51, Issue 9, pp. 679-84, (1999) ([PubMed](#)).

Van Niekerk, Ramaekers, Hanselaar, Aldeweireldt, Poels: "Changes in expression of differentiation markers between normal ovarian cells and derived tumors." in: **The American journal of pathology**, Vol. 142, Issue 1, pp. 157-77, (1993) ([PubMed](#)).

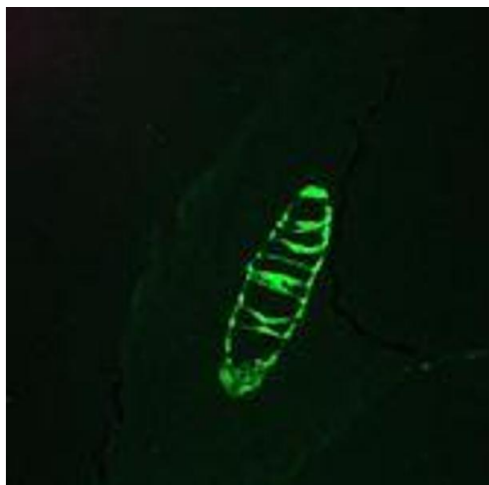
Bauwens, De Groot, Ramaekers, Veldman, Huizing: "Expression of intermediate filament proteins in the adult human vestibular labyrinth." in: **The Annals of otology, rhinology, and laryngology**, Vol. 101, Issue 6, pp. 479-86, (1992) ([PubMed](#)).

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](#)).

van Niekerk, Boerman, Ramaekers, Poels: "Marker profile of different phases in the transition of normal human ovarian epithelium to ovarian carcinomas." in: **The American journal of pathology**, Vol. 138, Issue 2, pp. 455-63, (1991) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Immunofluorescence

Image 1. Immunofluorescence staining of a 7 days old zebrafish embryo