

Datasheet for ABIN111183
anti-Cytokeratin 18 antibody

13 Publications



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Overview

Quantity:	50 µg
Target:	Cytokeratin 18 (KRT18)
Reactivity:	Human, Mouse, Rat, Dog, Pig, Cow, Hamster, Sheep, Zebrafish (Danio rerio), Trout
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytokeratin 18 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Human keratin K18 from HeLa cytoskeletal preparation
Clone:	Ks18-04
Isotype:	IgG1
Specificity:	Ks 18.04 represents an excellent marker to discriminate simple epithelia from those of different origin. Tumors specifically detected: all adenocarcinoma, mammary carcinoma, urinary bladder carcinoma, undifferentiated carcinoma, cervix carcinoma, hepatocellular carcinoma. Polypeptide reacting: Mr 45 000 polypeptide (human keratin K18) of all simple type epithelia and basal cells of many squamous, nonepidermal epithelia. Reactivities on cultured cell lines (tested so far): HeLa and MCF-7
Cross-Reactivity (Details):	Species reactivity (tested): Human, Mouse, Rat, Bovine, Porcine, Canine, Hamster, Sheep, Fish (Trout) and Zebrafish

Product Details

Purification: Protein A chromatography

Target Details

Target:	Cytokeratin 18 (KRT18)
Alternative Name:	Cytokeratin 18 (KRT18 Products)
Background:	Cytokeratin 18 is an acidic keratin which is found primarily in non squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas but not in squamous cell carcinomas. Cytokeratin 18 exists in combination with Cytokeratin 8, a basic keratin. Hepatocellular carcinomas have been reportedly defined by the use of antibodies that recognize only Cytokeratins 8 and 18.Synonyms: CK18, CYK18, Cell proliferation-inducing gene 46 protein, Cytokeratin-18, K18, KRT18, Keratin 18, Keratin type I cytoskeletal 18, Keratin-18
Gene ID:	3875
NCBI Accession:	NP_000215
UniProt:	P05783
Pathways:	Apoptosis, Caspase Cascade in Apoptosis

Application Details

Application Notes:	Western blot. Immunohistochemistry (dilute 1: 20 with PBS): suitable for cytological material, frozen andparaffin-embedded tissue (for best performance, microwave treatment is recommended). Incubation time: 1h at 37C, extended with paraffin sections (overnight at 2-8C). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore in 1.0 mL distilled water.
Buffer:	PBS, pH 7.4, 0.09 % Sodium azide, 0.5 % BSA
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	Avoid repeated freezing and thawing). Dilute only prior to immediate use.
Storage:	-20 °C
Storage Comment:	Store the antiserum at -20 °C (aliquot contents to

Publications

- Product cited in:
- Zatloukal, Kufferath, Thueringer, Landegren, Zatloukal, Haybaeck: "Sensitivity and specificity of in situ proximity ligation for protein interaction analysis in a model of steatohepatitis with Mallory-Denk bodies." in: **PLoS ONE**, Vol. 9, Issue 5, pp. e96690, (2014) ([PubMed](#)).
- Trowe, Airik, Weiss, Farin, Foik, Bettenhausen, Schuster-Gossler, Taketo, Kispert: "Canonical Wnt signaling regulates smooth muscle precursor development in the mouse ureter." in: **Development (Cambridge, England)**, Vol. 139, Issue 17, pp. 3099-108, (2012) ([PubMed](#)).
- Schwartz, Barker, Long, Kaufman, McCracken, Allen: "Natural IgM mediates complement-dependent uptake of Francisella tularensis by human neutrophils via complement receptors 1 and 3 in nonimmune serum." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 189, Issue 6, pp. 3064-77, (2012) ([PubMed](#)).
- Sharma, Cantz, Richter, Eckert, Henschler, Wilkens, Jochheim-Richter, Arseniev, Ott: "Human cord blood stem cells generate human cytokeratin 18-negative hepatocyte-like cells in injured mouse liver." in: **The American journal of pathology**, Vol. 167, Issue 2, pp. 555-64, (2005) ([PubMed](#)).
- Ikenouchi, Matsuda, Furuse, Tsukita: "Regulation of tight junctions during the epithelium-mesenchyme transition: direct repression of the gene expression of claudins/occludin by Snail." in: **Journal of cell science**, Vol. 116, Issue Pt 10, pp. 1959-67, (2003) ([PubMed](#)).

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