Datasheet for ABIN111169

anti-KRT20 antibody

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Overview

Quantity:	50 µg
Target:	KRT20
Reactivity:	Human, Rat, Pig
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KRT20 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Electrophoretically purified Keratin K20 from human intestinal mucosa
Clone:	KS20-10
Isotype:	IgG1
Specificity:	IT-Ks 20.10 represents an excellent marker for certain types of carcinomas such as adenocarcinomas of the colon, transitional cell carcinomas of the bladder and Merkel cell tumors of the skin. Very sensitive detection of intestestinal and gastric foveolar epithelium, urothelial umbrella cells, Merkel cells of epidermis as well as tumors originating therefrom (e.g. primary and metastatic colorectal carcinoma). Adenocarcinomas of breast, lung, endometrium and ovary (non-mucinous) as well as neuroendocrine tumors of the lung are essentially negative. Polypeptide recognized: protein IT (keratin K20, Mr 46 000, formerly also designated cytokeratin 20). Reactivities on cultured cell lines (tested so far): HT-29, LoVo, DLD-1, SW 1116, CaCo-2, RT-4.

Product Details

Purification:	Protein A affinity chromatography

Target Details

Target:	KRT20
Alternative Name:	Cytokeratin 20 (KRT20 Products)
Background:	Cytokeratin 20 is a type I keratin which is primarily expressed in gastric and intestinal epithelium, urothelium, and Merkel-cells. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Their genes are clustered in a region of chromosome 17q12-q21. Cytokeratin 20 is a major cellular protein of mature enterocytes and goblet cells and is specifically expressed in the gastric and intestinal mucosa. It is also expressed in adenocarcinomas of the colon, stomach, pancreas and the bile system and is present in mucinous ovarian tumors, transitional-cell and Merkel-cell carcinomas. Notably, the squamous cell carcinomas and adenocarcinomas of the breast, lung, and endometrium, non-mucinous tumors of the ovary, and small cell carcinomas lack cytokeratin 20.Synonyms: CK20, Cytokeratin 20, K20, KRT20, Keratin type I cytoskeletal 20, Keratin-20, Protein IT
Gene ID:	54474
NCBI Accession:	NP_061883
UniProt:	P35900

Application Details

Application Notes:	Immunohistochemistry on frozen tissue. Immunohistochemistry on paraffin embedded sections (only after after microwavetreatment). Dilute 1/10 with PBS for immunohistochemistry. Incubation time: 1h at RT, orover night at 4C. Western blotting. ELISA. 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 with 1 mL distilled water.
Buffer:	Final solution contains 0.09 % NaN3, 0.5 % BSA in PBS buffer, pH 7.4.

Handling

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 Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C

Publications

Product cited in:	de Wit, van Dalum, Lenferink, Tibbe, Hiltermann, Groen, van Rijn, Terstappen: "The detection of EpCAM(+) and EpCAM(-) circulating tumor cells." in: **Scientific reports**, Vol. 5, pp. 12270, (2015) (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).

Images

KERATIN K20 IN TUMORS		
Miettinen	Mod Pathol 1995	Marker for differentiation of gastrointestinal, urothelial, and Merkel cell carcinomas (788 cases)
Moll	Subcellular Biochemistry (31) 1998	Marker for differentiation in the diagnosis of epithelial tumors
Chu + Weiss	Histopathology (40) 2002	Marker for differentiation in the diagnosis of epithelial tumors
Kaufmann et al.	Pathologe (23) 2002	Marker for differentiation in the diagnosis of epithelial tumors and metastases with unknown primary tumor
Wang et al.	Appl Immunohistochem 1995	Keratin K20 in adenocarcinoma
Wauters et al.	Hum Pathol 1995	Keratin K20 in adenocarcinoma
Ascoli et al.	Diagn Cytopathol 1995	Keratin K20 in adenocarcinoma
Loy + Calaluce	Am J Clin Pathol 1994	Keratin K20 in adenocarcinoma
Chu et al.	Mod Pathol (13) 2000	Keratin K20 in adenocarcinoma (coexpression with keratin K7)
Tot	Cancer (92) 2001	Keratin K20 in adenocarcinoma (coexpression with keratin K7)
Kummar et al.	Br J Cancer (86) 2002	Cytokeratin 20 in adenocarcinoma (coexpression with keratin K7)
Cathro + Stoler	Am J Clin Pathol (117) 2002	Keratin K20 in adenocarcinoma (coexpression with keratin K7)
Hernandez et al.	Human Pathology (36) 2005	Keratin K20 in adenocarcinoma (coexpression with keratin K7)
Ormsby et al.	Hum Pathol (30) 1999	Marker for *Barrett's carcinomas* (esophagus)
Hamden et al.	Br J Cancer (78) 1996	Marker for urothelial carcinoma
Hamden et al.	Lancet (353) 1999	Marker for urothelial carcinoma
Golijanin et al.	J Urol (164) 2000	Marker for urothelial carcinoma
Scott + Helm	Am J Dermatopathol (21) 1999	Marker for Merkel cell carcinoma
Cheuk et al.	Arch Pathol Lab Med (125) 2001	Marker for Merkel cell carcinoma
Leech et al.	J Clin Pathol (54) 2001	Marker for Merkel cell carcinoma
Su et al.	J Am Acad Dermatol (46) 2002	Marker for Merkel cell carcinoma
KERATIN K20 IN NORMAL CELLS		
Flint et al.	Epithelial Cell Biol 3) 1994	Marker for *intestinal epithelial cells* of villi
Kim + Holbrook	J. Invest Dermatol (104) 1995	Marker for *Merkel cells*
Bouwens et al.	J Histochem Cytochem (43) 1995	Marker for *rat pancreatic duct cells*
Moll et al.	J Invest Dermatol (104) 1995	Marker for cutaneous Merkel cells
Chunxiao + Oakley	Differentiation 61 (1996)	Marker for taste bud cells in human and rat
Barrett et al.	Arch Oral Biol (45) 2000	Marker for taste bud cells

Image 1. Keratin 20: Overview

