

## Product datasheet for **BM2247F**

### Cytokeratin 20 (KRT20) Mouse Monoclonal Antibody [Clone ID: KS20.10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	KS20.10
Applications:	FC, IF, IHC
Recommended Dilution:	<b>FACS.</b> <b>Cytological material.</b> <b>Immunohistochemistry on Frozen sections.</b> <b>Immunohistochemistry on Paraffin sections</b> (Only after <i>Microwave treatment</i> ). <b>Recommended Dilutions:</b> 1/10-1/20 in PBS, PH 7.4 for Immunohistochemistry. <b>Incubation Time:</b> 1h at RT or over night at 2-8°C.
Reactivity:	Human, Porcine, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Electrophoretically purified Keratin K20 from Human intestinal mucosa.
Specificity:	This Monoclonal clone IT-Ks20.10 antibody 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 intestinal 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. <b>Polypeptide Recognized:</b> Protein IT (keratin K20; Mr 46 000; also designated Cytokeratin 20). <b>Tested Reactivities on Cultured Cell Lines:</b> HT-29, LoVo, DLD-1, SW 1116, CaCo-2, RT-4.
Formulation:	Label: FITC State: Liquid purified Ig fraction with 0.09% Sodium Azide and 0.5% BSA
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	FITC



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**Storage:** Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**Gene Name:** keratin 20

**Database Link:** [Entrez Gene 54474 Human P35900](#)

**Background:** Cytokeratin 20 is a 46 kDa intermediate filament protein whose expression is restricted primarily to gastric and intestinal epithelium, urothelium, and Merkel cells. This antibody is highly specific to cytokeratin 20 and shows no cross-reactivity with other IFPs. Cytokeratin 20 is a unique type I keratin that is expressed in adenocarcinomas of the colon stomach, pancreas and bile system. It is also expressed in mucinous ovarian tumors, transitional cell carcinomas of the urinary tract, and Merkel cell carcinomas.

**Synonyms:** Cytokeratin 20, Keratin-20, KRT20, CK20, K20, Protein IT

### Product 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) 1996	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.	Pathologie (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 carcinoma (esophagus)
Hamnden et al.	Br J Cancer (78) 1996	Marker for urothelial carcinoma
Hamnden et al.	Lancet (353) 1999	Marker for urothelial carcinoma
Goljanin 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