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AM08175PU-N Monoclonal Antibody to Cytokeratin 18 (N-term) - Purified

Alternate names:	CK18, CYK18, Cell proliferation-inducing gene 46 protein, Cytokeratin-18, K18, KRT18, Keratin 18, Keratin type I cytoskeletal 18, Keratin-18
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	Keratins are a family of intermediate filament proteins that assemble into filaments through forming heterodimers of one type I keratin (keratins 9 to 23) and one type II keratin (keratins 1-8). The two keratin types share only 30% sequence homology. (Ref.1-6) Keratins demonstrate tissue- and differentiation-specific expression profiles. Cytokeratin 18, also known as keratin 18, is a type I intermediate filament protein of approximately 48 kDa. It exists as a heterotetramer composed of two type I and two type II keratins. Cytokeratin 18 is expressed in all simple type epithelia and basal cells of many squamous and non-epidermal epithelia, and is often co-expressed with cytokeratin 8. (Ref.6-8) Tissues from the gastrointestinal tract, respiratory tract and urogenital tract, as well as endocrine and exocrine tissues and mesothelial cells are positive for cytokeratin 18.
Uniprot ID:	P05783
NCBI:	NP_000215.1
GeneID:	3875
Host / Isotype:	Mouse / IgG2b
Recommended Isotype Controls:	SM12P, AM03110PU-N
Clone:	SB38b
Immunogen:	Recombinant N-terminal fragment of keratin 18.
Format:	**State:** Liquid purified Ig fraction. **Buffer System:** 100 mM Borate buffered saline, pH 8.0 without preservatives or amine-containing buffer salts.
Applications:	**ELISA:** 1/5,000-1/20,000. **Western Blot:** 1/2,000-1/4,000. **Immunohistochemistry** (Acetone-Fixed, Frozen Tissue Sections): 10 µg/ml Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts specifically specifically with Keratin 18 and recombinant N-terminal Keratin 18.
Add. Information:	**Chatacterization:** To ensure acceptable performance, each batch of product is tested by ELISA, Immunohistochemical staining (HT29 and HCC38 cells) and Western blotting (HT29 and HCC38 cell lysates) to conform to characteristics of a standard reference reagent.

Storage:

Store the antibody undiluted at 2-8°C.
Shelf life: one year from despatch.

General Readings:

1. Lodish, H. et al. (2000) In: Molecular Cell Biology. NY, NY, W.H. Freeman and Co., pp 795-847.
2. Fuchs, E.V. et al. (1981) Cell 27: 75-84.
3. Hanukoglu, I. And E. Fuchs. (1983) Cell 33: 915-924.
4. Schiller, D.L. et al. (1982) EMBO J. 6:761-769.
5. Tseng, S.C.G. et al. (1982) Cell 30: 361-372.
6. Ku, N. et al. (2003) Proc. Natl Acad. Sci. USA 100: 6063.
7. Kulesh, D.A. and R.G. Oshima (1989) Genomics 4: 339.
8. Steinart, P.M. and D.R. Roop (1988) Ann. Rev. Bioche,m. 57: 593.