

BA1008S**Bovine Cytokeratin 18 - 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:	1.0 mg/ml
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.
Uniprot ID:	A6H7D3
NCBI:	9913
Species:	Bovine
Source:	Liver
Format:	State: Lyophilized Purity: >95% (determined by SDS gelelectrophoresis) Buffer System: 30mM Tris/HCl pH 8, 9M urea, 2mM DTT, 2mM EDTA, 10mM Methylammonium Chloride Reconstitution: Restore with distilled water. BA1008S: 70 µl (final volume 100 µl). BA1008 : 175 µl (final volume 250 µl).
Applications:	Protein standard in 1D and 2D SDS gelelectrophoresis. Immunoassays. Immunization. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	Bovine keratin K18 (formerly also designated Cytokeratin 18). Molecular weight: 45 kDa
Add. Information:	Isoelectric Point: pI 5.4
Storage:	Store at 2-8°C (lyophilized) and at -20°C (reconstituted). Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Franke WW, Denk H, Kalt R, Schmid E. Biochemical and immunological identification of cytokeratin proteins present in hepatocytes of mammalian liver tissue. Exp Cell Res. 1981 Feb;131(2):299-318. PubMed PMID: 6162655. 2. Hatzfeld M. and Franke W.W. (1985). J. Cell Biol. 101, 1826-1841 3. Hatzfeld M. et al. (1987). J. Mol. Biol. 197, 237-255

Protocols:

Reconstitution to filaments is performed by mixing equimolar amounts of keratins of type I and type II at concentrations of approx. 0.5 mg/ml, both dissolved in 9.5 M urea buffer (see above). Protofilaments and filament complexes are obtained by dialyzing the resulting polypeptide solution stepwise to a concentration of 4 M urea and then to low salt condition (50 mM NaCl, 2 mM dithiothreitol, 10 mM Tris-HCl, pH 7.4). For Immunization purposes, the solution can be further dialyzed against PBS (phosphate buffered saline, e.g. Dulbeccos PBS). See References 2 and 3 for more details.

Pictures:

Lane 1: Phosphorylase B (a), BSA (b),
Ovalbumin (c), Carbonic Anhydrase (d).
Lane 2: Keratin K18

