

Product datasheet for **AM05293PU-N**

Cytokeratin 5 (KRT5) (+ KRT14) Mouse Monoclonal Antibody [Clone ID: 16.4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	16.4
Applications:	IHC, WB
Recommended Dilution:	Western Blot: Detects a 58 kDa band, corresponding to Keratin 5, and a 50 kDa band, corresponding to Keratin 14. Immunohistochemistry on Frozen Sections: 1-5 µg/ml. Does not work on Paraffin embedded tissue sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with cytokeratin enriched extract of Feline tongue epithelium and Mouse myeloma cells.
Formulation:	PBS containing 0.08% Sodium Azide as preservative. State: Purified State: Liquid (0.2µm sterile filtered) purified IgG fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Can be shipped at 2-8°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	keratin 5
Database Link:	Entrez Gene 3852 Human P13647



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Background:

Cytokeratins (CK) are intermediate filaments of epithelial cells, both in keratinizing tissue (ie., skin) and non-keratinizing cells (ie., mesothelial cells). Although not a traditional marker for endothelial cells, cytokeratins have also been found in some microvascular endothelial cells. At least 20 different cytokeratins (CK) in the molecular range of 40-70 kDa and isoelectric points of 5-8.5 can be identified using two dimensional gel electrophoresis. Biochemically, most members of the CK family fall into one of two classes, type I (acidic polypeptides) and type II (basic polypeptides). At least one member of the acidic family and one member of the basic family is expressed in all epithelial cells. Monoclonal antibodies to cytokeratin proteins can be useful markers for tumor identification and classification. Belonging to the type A (acidic) subfamily of low molecular weight keratins and existing in combination with keratin 5, keratin 14 distinguishes stratified epithelial cells from simple epithelial cells and is useful in identification of squamous cell carcinomas. It is considered a prognostic marker in breast carcinomas.

Synonyms:

KRT5, Cytokeratin-5, Keratin-5, Keratin 5, CK5, K5