

Product datasheet for **SM1471-05**

Cytokeratin 16 (KRT16) Mouse Monoclonal Antibody [Clone ID: LL025]

Product data:

Product Type:	Primary Antibodies
Clone Name:	LL025
Applications:	IHC
Recommended Dilution:	Immunohistochemistry: This Keratin 16 antibody may be diluted to a titer of 1/25-1/75 in an ABC method. We suggest an incubation period of 30 minutes at room temperature. Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining. <i>Recommended Positive Control: Skin.</i>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide from the C-terminus of Human Cytokeratin 16
Specificity:	This antibody is specific to a 48 kD protein which is identified as cytokeratin 16. Cytokeratin 16 is expressed in keratinocytes which are undergoing rapid turnover in the suprabasal region. High concordance was found between the carcinomas immunostaining with the basal cell and the hyperproliferation related keratins. Cellular localization: Cytoplasmic.
Formulation:	State: Supernatant State: Liquid purified Ig fraction containing Sodium Azide as preservative
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	keratin 16
Database Link:	Entrez Gene 3868 Human P08779



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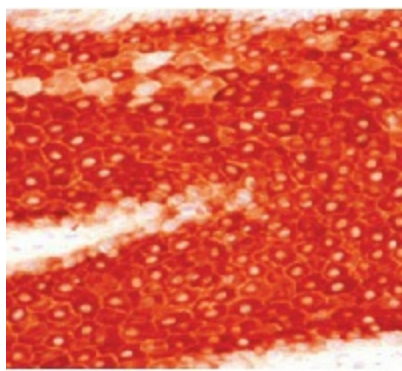
Background:

Keratin 16 is expressed in keratinocytes, which are undergoing rapid turnover in the suprabasal region (also known as hyperproliferation-related keratins). Keratin 16 is absent in normal breast tissue and in noninvasive breast carcinomas. Only 10% of the invasive breast carcinomas show diffuse or focal positivity. Reportedly, a relatively high concordance was found between the carcinomas immunostaining with the basal cell and the hyperproliferation-related keratins, but not between these markers and the proliferation marker Ki-67. This supports the conclusion that basal cells in breast cancer may show extensive proliferation, and that absence of Ki-67 staining does not mean that (tumor) cells are not proliferating.

Two cytokeratins, 6 and 16, are expressed when keratinocytes are undergoing rapid turnover in various pathological states, wound healing, psoriasis and some carcinomas.

Synonyms:

Cytokeratin-16, Keratin-16, Keratin 16, KRT16, KRT16A, CK16, K16

Product images:

Formalin Fixed Paraffin Embedded Human squamous carcinoma of lung stained with Cytokeratin 16 antibody Cat.-No [SM1471]