

Product datasheet for **TA300887**

Cytokeratin 5 (KRT5) Rabbit Monoclonal Antibody [Clone ID: EP1601Y]

Product data:

Product Type:	Primary Antibodies
Clone Name:	EP1601Y
Applications:	IF, IHC, WB
Recommended Dilution:	IHC-Fr: Use at an assay dependent concentration; ICC/IF: Use at an assay dependent dilution; WB: 1:10000; IHC-P: Use at an assay dependent dilution
Reactivity:	Mouse, Human (Does not react with: Rat)
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to residues on the C-terminus of human CK-5 was used as an immunogen.
Formulation:	PBS 49%,Sodium azide 0.01%,Glycerol 50%,BSA 0.05%
Purification:	Tissue culture supernatant
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	keratin 5
Database Link:	NP_000415 Entrez Gene 110308 Mouse Entrez Gene 369017 Rat Entrez Gene 3852 Human P13647



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Background:

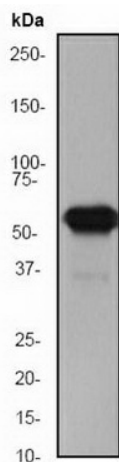
Keratins are a family of structurally related proteins that form the intermediate filament cytoskeleton in epithelial cells. The 58-kD keratin CK-5 is highly similar to other type II keratins and less similar to type I keratins and other intermediate filament proteins. The 58-kD keratin is regulated by retinoids in several tissues and is one of four keratins abundantly expressed in epidermal keratinocytes, where it may be important in maintaining structural integrity of the integument (1). Keratin 5 (CK-5) mRNA and protein are shown to be expressed in normal mammary epithelial cells in culture and are absent from tumor-derived cell lines. This makes CK-5 an important marker in the tumorigenic process, distinguishing normal from tumor cells, and decreased CK-5 expression correlates with tumorigenic progression (2). Dowling-Degos disease (DDD) is an autosomal dominant genodermatosis characterized by progressive and disfiguring reticulate hyperpigmentation of the flexures. Loss of function of CK-5 suggests a crucial role for keratins in the organization of cell adhesion, melanosome uptake, organelle transport, and nuclear anchorage (3).

Synonyms:

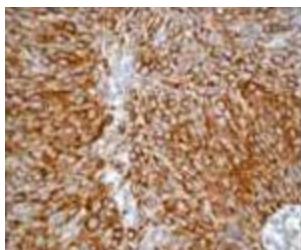
CK5; DDD; DDD1; EBS2; K5; KRT5A

Note:

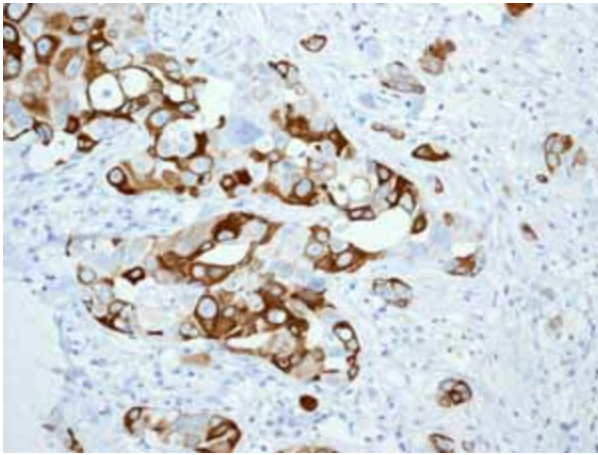
Is unsuitable for Flow Cyt.

Product images:


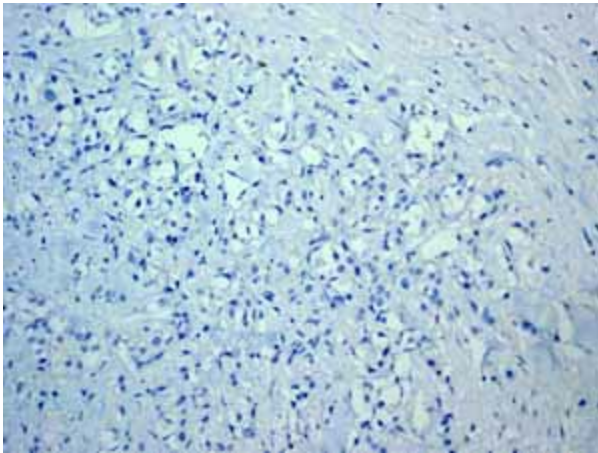
Western blot - Cytokeratin 5 antibody [EP1601Y]; Anti-Cytokeratin 5 antibody [EP1601Y] at 1/10000 dilution + A431 cell lysate at 10 ug.Secondary.Goat anti-rabbit HRP at 1/2000 dilution.Predicted band size : 62 kDa.Observed band size : 62 kDa.



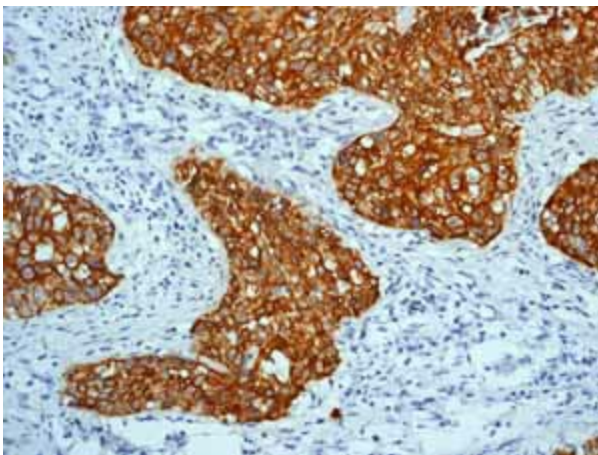
Immunohistochemistry (Paraffin-embedded sections) - Cytokeratin 5 antibody [EP1601Y]; Human transitional urinary bladder carcinoma stained with TA300887 at 1/100 - 1/250 dilution.



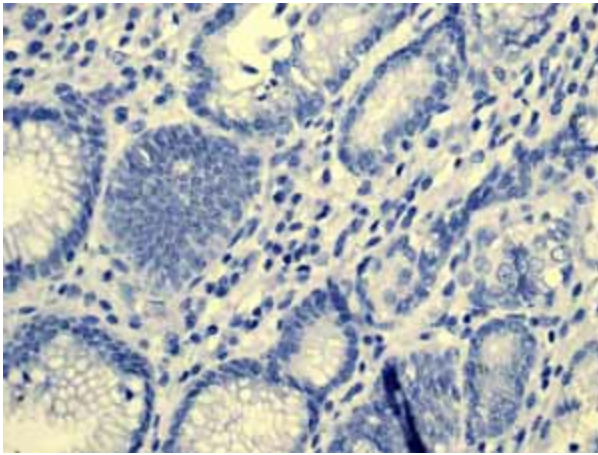
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Cytokeratin 5 antibody [EP1601Y] (TA300887); TA300887 showing positive staining in Basal cell breast carcinoma tissue.



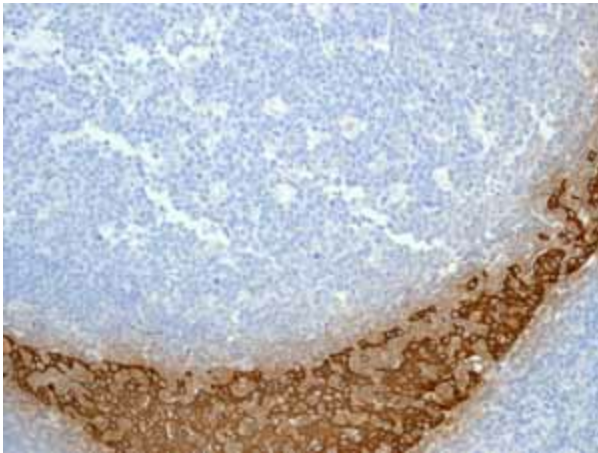
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Cytokeratin 5 antibody [EP1601Y] (TA300887); TA300887 showing negative staining in Ductal breast carcinoma tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Cytokeratin 5 antibody [EP1601Y] (TA300887); TA300887 showing positive staining in Squamous cell cervical carcinoma tissue.



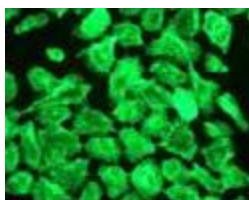
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Cytokeratin 5 antibody [EP1601Y] (TA300887); TA300887 showing negative staining in Stomach adenocarcinoma tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Cytokeratin 5 antibody [EP1601Y] (TA300887); TA300887 showing positive staining in Normal tonsil squamous cells tissue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)-Anti-Cytokeratin 5 antibody [EP1601Y] (TA300887); TA300887 showing positive staining in Squamous cell lung carcinoma tissue.



Immunocytochemistry/ Immunofluorescence -
Cytokeratin 5 antibody [EP1601Y]; A431 cells
stained with TA300887 at 1/100 - 1/250