

Recombinant p40 (deltaNp63) (Squamous, Basal & Myoepithelial Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone rTP40/3690]

Catalog No	Format	Size
8626-MSM10-B1	Purified Ab conjugated to Biotin	0.5 ml at 100ug/ml

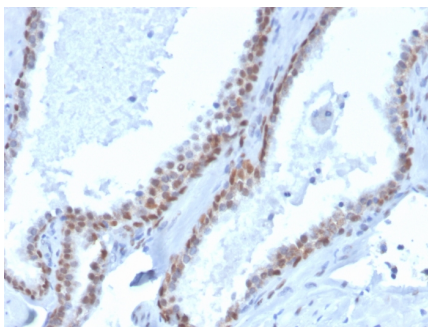
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

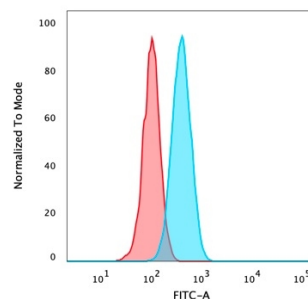
Clone	rTP40/3690
Gene Name	TP63
Immunogen	A synthetic peptide from the N-terminal of human p40 protein (Exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1
Mol. Weight of Antigen	40kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	HeLa cells. Human prostate or lung tissue (IHC).

*Optimal dilution for a specific application should be determined.

Product Images for Recombinant p40 (deltaNp63) (Squamous, Basal & Myoepithelial Cell Marker) Antibody



Formalin-fixed, paraffin-embedded human prostate stained with Biotinylated p40 Recombinant Mouse Monoclonal Antibody (rTP40/3690).



Flow Cytometric Analysis of PFA-fixed HeLa cells using p40 Recombinant Mouse Monoclonal Antibody (rTP40/3690) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

Specificity & Comments

p63 consists of two major isoforms-TAp63 and delta-Np63. These isoforms differ in the structure of the N-terminal domains. The TAp63 isoform (identified by anti-p63 antibody) contains a transactivation-competent TA domain with homology to p53, which regulates the expression of the growth-inhibitory genes. In contrast, DNp63 isoform (identified by anti-p40 antibody) contains an alternative transcriptionally-inactive delta-N domain, which antagonizes the activity of TAp63 and p53. P40/3980R recognizes exclusively delta-Np63 but not TAp63. p40 is a squamous cell carcinoma specific antibody. It reacts with the vast majority of cases of squamous cell carcinomas of various origins, but not with adenocarcinomas. It is particularly useful in differentiating lung squamous cell carcinoma from lung poorly differentiated adenocarcinoma. p40 antibody can also be used as an alternative basal cell/myoepithelial cell marker, which has similar sensitivity and specificity as that of p63 antibody. Therefore, p40 antibody may also be used as an alternative immunohistochemical marker for determining prostate adenocarcinoma vs. benign prostate glands and for determining breast intraductal carcinoma vs. invasive breast ductal carcinoma.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab produced in HEK293 cell mammalian-based expression system and conjugated to Biotin. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Basal Cell Marker, Nuclear Marker, Stem Cell Differentiation, Transcription Factors