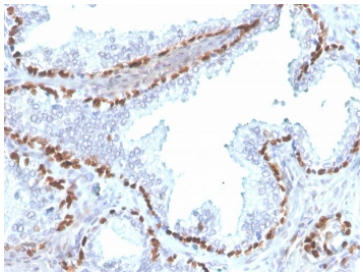
Recombinant p40 Antibody / deltaNp63 [clone rTP40/3690] (V8627)

Catalog No.	Formulation	Size
V8627-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8627-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8627SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

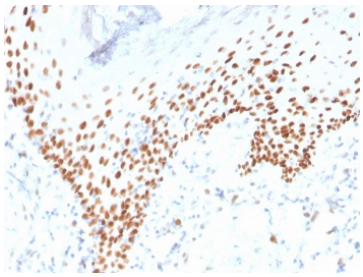
Recombinant MOUSE MONOCLONAL

Bulk quote request

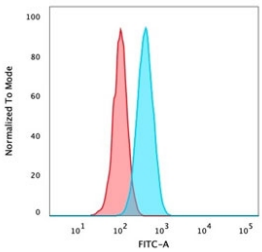
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rTP40/3690
Purity	Protein G affinity chromatography
UniProt	Q9H3D4
Localization	Nuclear
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 minutes at RT
Limitations	This recombinant p40 antibody is available for research use only.



IHC staining of FFPE human kidney with recombinant p40 antibody (clone rTP40/3690). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human skin with recombinant p40 antibody (clone rTP40/3690). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Flow cytometry testing of PFA-fixed human HeLa cells with recombinant p40 antibody (clone rTP40/3690); Red=isotype control, Blue= recombinant p40 antibody.

Description

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.

Application Notes

Optimal dilution of the recombinant p40 antibody should be determined by the researcher.

Immunogen

A synthetic peptide from the N-terminal of human p40 protein was used as the immunogen for the recombinant p40 antibody.

Storage

Store the recombinant p40 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).