

p40
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX50028

Clone# BP6033

Predicted Molecular Wt: 66kDa

Purity: ProA affinity purified IgG

Species Cross-reactivity: Human

Form: Liquid

Applications: IHC-P

Swissprot ID: Q9H3D4-2

Background:

p40 antibody (antibody recognizing ΔNp63 only) is an isoform of p63, is thought to function as a stem cell factor, responsible for maintaining cells in an uncommitted state with regenerative potential—a role that may be recapitulated in tumors derived from these cells.

p40 is normally expressed in the basal or progenitor cell layer of stratified epithelia (eg. squamous, urothelial, bronchial), basal cells of some glandular epithelia (eg. prostate), as well as myoepithelial cells of breast and salivary glands, trophoblasts and thymic epithelial cells. In tumor tissues, p40 expression is specific for squamous cell carcinoma.

p40 is equivalent to p63 in sensitivity for lung squamous cell carcinoma, but it is markedly superior to p63 in specificity, which eliminates a potential pitfall of misinterpreting a p63-positive adenocarcinoma or unsuspected lymphoma as squamous cell carcinoma. p40 appears to be a more reliable marker for squamous cell carcinoma.

Subcellular location:

Nucleus

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide corresponding to p40 residues within aa1-100 of p40 was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C

Storage instructions:

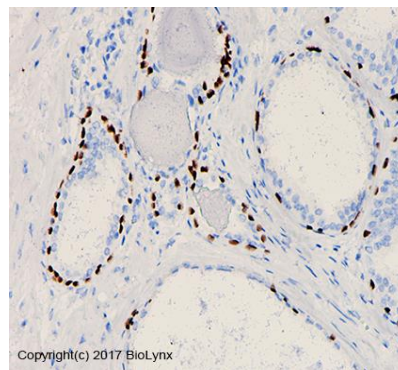
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Nonaka D et.al, Am J Surg Pathol. 2012 Jun;36(6):895-9.
2. Bishop JA et.al, Mod Pathol. 2012 Mar;25(3):405-15.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of prostate tissue labelling p40 with BP6033. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.