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Rev.: 2018/12/5

p63
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX50033
Clone# BP6038

Predicted Molecular Wt: 77kDa
Species Cross-reactivity: Human
Applications: IHC-P
Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q9H3D4

Background:

p63 is a transcription factor related to the tumor suppressor gene p53 and play a critical role in the development of stratified epithelia by maintaining basal cell regenerative capacity and perhaps by playing a role in mediating ectodermal-mesenchymal interactions.

In normal tissues, p63 expression is presented in the basal cells of stratified epithelia such as skin, ectocervix, esophagus, urothelium, and bronchi. p63 is also found in basal cells of glandular tissue such as prostate and breast and in lymphoid tissue.

In tumor tissues, the p63 gene is amplified and the protein is overexpressed in primary lung and head and neck squamous cell carcinomas. Squamous cell carcinomas of the larynx, esophagus, skin, and cervix also express p63. p63 expression has also been documented in basal cell carcinomas of skin. However, some studies also show that p63 expressed in a subset of adenocarcinomas and large cell carcinomas of lung.

In diagnostic pathology practice, p63 has been studied as a marker of basal cells to help in the diagnosis of ductal carcinoma in situ of the breast versus invasive carcinoma in fine-needle aspirates. Similarly, p63 has been tested as a marker to identify basal cells in the diagnostic work-up for prostatic cancer. Recently, some studies have suggested that p63 in combination with other markers may be used to help in differentiating squamous cell carcinomas from other tumor types in cases difficult to diagnose histologically.

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 p63 residues within aa580-680 of p63 was used as an immunogen.

Storage Buffer:

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

Storage conditions:

-20°C

Storage instructions:

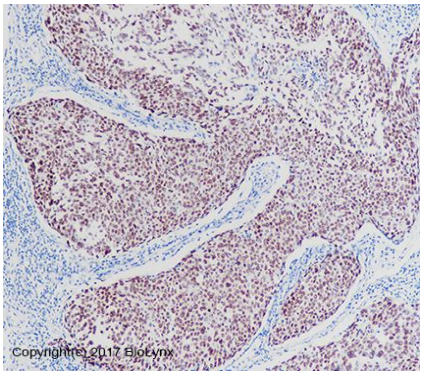
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Au NH, et.al, Appl Immunohistochem Mol Morphol. 2004 Sep;12(3):240-7.
2. Lewis JS, et.al, Mod Pathol. 2005 Nov;18(11):1471-81.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of SCC of lung tissue labelling p63 with BP6038. 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.