

Product Specification Sheet

Mouse Monoclonal Anti-Human p73 β

Cat. P73B15-M **Mouse Monoclonal Anti-Human p73 β Antibody #5, affinity pure** **SIZE:** 100 ug
FORM: Soln Lyophilized

Human **p73 α** is the first known structural and functional homolog of one of the most studied tumor protein, p53 (1). Human p73 gene encodes two distinct polypeptides: The p73 long form (human 636 AA, termed p73 α ; mouse 590 aa) and the short form (499 AA; termed p73 β). The short form arises through alternative splicing of the p73. With the exception of C-terminal 5 AA, p73 β is identical to p73 α . Both p73 α and p73 β transcripts were detected all human tissues. The endogenous p73 α protein has also been detected in cell extracts of HT-29, IMR-32, and SK-N-SH cells. Other cell lines, SK-N-MC SK-N-AS displayed significantly reduced levels of p73 α protein (1). The C-terminal domain (364-393) of p53 and p73 are quite distinct. p73 has been mapped to human chromosome 1p36, a region that is frequently deleted in a variety of human cancers including neuroblastoma, colon cancer, melanoma, and breast cancer.

Source of Antigen and Antibodies

A recombinant fusion-protein containing ~120 aa fragment from the C-terminus of human **p73 β** served as immunogen for the production of mouse monoclonal antibody. Antibody was expanded as ascites and purified by Protein-A/G chromatography.

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

100 ug/100ul 50 ug/50 ul
solution lyophilized powder
Buffer: 100 mM Tris, pH 7.5, 0.2% BSA
contains 0.05% sodium azide
Reconstitute in the original vol. of water

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Shipping: 4oC for solutions and room temp for powder.

Recommended Usage

Western Blotting 2-5 ug/ml for affinity pure using Chemiluminescence technique). The antibody detect ~73 kDa band in human A431 cells.

ELISA (1:10K-1:100K; using 50-100 ng of control peptide/well).

IP: It is also recommended for IP. Use 1-5 ug for IP in RIPA lysate from CHO., A431 and other cells.

Specificity & Cross-reactivity

This antibody reacts with p73 β from monkey, and hamster. Antibody crossreactivity in various other species is not established. Under non-denaturing conditions, the antibody may also immunoprecipitate both p73-alpha and -beta isoforms. This crossreactivity is limited or negligible under denaturing conditions.

General References:

Kaghad, M et al (1997) Cell 90, 809-819; 2. Oren, M (1997) Cell 90, 829-832; Herranz M et al (1999) Cancer Res. 59, 2068-2071; Yang A et al (2000) Nature 404, 99-103

*This product is for in vitro research use only.

Related material available from ADI

Anti-p53, Phosphorylated, acetylated, p63, p73

Western Blot recycling kit (Use the same blot to probe with multiple antibodies p53, p63, p73, etc.) **recycle blot at room temp in 5-10 min;** No mercaptoethanol or heating required).

P73b15M

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