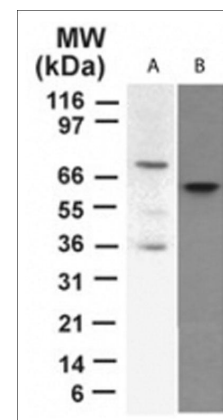


Background

p73 has high homology with p53 as well as with p63, a gene implicated in the maintenance of epithelial stem cells. Significant homology between p53, p63, and p73 (approximately 63% amino acid identity in the DNA-binding domain suggest that they may have overlapping functions in the regulation of gene expression. The targeted disruption of p73 gene leads to defects hippocampal dysgenesis, hydrocephalus, chronic inflammation and infections. Recently, splicing variant mRNAs of p73 have been identified in MCF-7, a breast carcinoma cell line. These mRNAs code for variant p73 proteins bearing distinct C-terminal structures suggesting that the C-terminal region of p73 may be important for its function. A p73 variant has been identified that lacks an N-terminal transactivation domain, called δ Np73. The δ Np73 message is transcribed from an alternative promoter located in intron 3.

Background References

Kaghad M. et al. (1997) Cell. 90:809.
Ueda Y. et al. (1999) Oncogene. 18:4993.
Levrero M. et al. (2000) J Cell Sci. 113 (10):1661.



Western blot analysis of p73 in A) transfected cell lysate and B) HeLa cell lysate using anti-p73 (N-terminal region) PM4831 at 1:250.

Applications

WB 1:250
ICC 1:50
IHC 1:50
IP 1:50

Species Reactivity

Hu, Rt, Ms

Isotype: IgG1

Specificity

This antibody detects p73 at 73 kDa* on SDS-PAGE immunoblots of p73-transfected cells, as well as p73 in human HeLa cells, and many other human, mouse, and rat cell types and tissues.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Immunogen

Uniprot ID: O15350

Clone 5B429 was generated from full-length human p73, and the antibody reacts with an epitope in the N-terminal region of human p73. The antibody does not detect δ Np73 and does not cross react with p53.

Buffer and Storage

Mouse monoclonal antibody purified with protein G chromatography is supplied in 100µl phosphate-buffered saline, 0.05% BSA, and 0.05% sodium azide. Store at 4°C. For long term storage, store at -20°C.

Related Products

AK6300 ATM Phospho-Regulation Antibody Sampler Kit
CM2261 Cdk1 (N-terminal region) Mouse Monoclonal
CM2361 Cdk5 Mouse Monoclonal
MK6050 MAP Kinase Activation Antibody Sampler Kit
PM4851 p73/ δ Np73 (N-terminus) Mouse Monoclonal

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