9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

45-1061: Mouse Monoclonal Antibody to p53 (Clone : 5H7B9)(Discontinued)

Clonality :	Monoclonal
Clone Name :	5H7B9
Application :	ELISA
Reactivity :	Human
Gene :	TP53
Gene ID :	7157
Uniprot ID :	P04637
Format :	Purified
Alternative Name :	Cellular tumor antigen p53, Antigen NY-CO-13, Phosphoprotein p53, Tumor suppressor p53
Isotype :	Mouse IgG2a
Immunogen Information :	Human recombinant wild type p53

Description

The p53 tumor suppressor protein plays a major role in cellular response to DNA damage and other genomic aberrations. It is situated at the crossroads of signalling pathways that are essential for cell growth regulation and apoptosis. In normal unstressed cells, the level of p53 protein is downregulated via the binding of proteins such as MDM2, COP1, PIRH2 or JNK that promote p53 degradation via the ubiquitin/proteasome pathway. As most of these genes are up regulated by p53, this lead to a regulation loop that will keep p53 level very low in a normal cells. Alternative splicing of the human p53 gene gives rise of p53 beta, p53 gamma, Delta 40p53 (also known as p44, p47 or delat N p53), Delta 40p53 beta, Delta 40 p53gamma, Delta 133p53, Delta 133p53 beta, and Delta 133p53 gamma. p53 Antibody (5H7B9), mAb, Mouse is produced from the hybridoma resulting from fusion of SP2/0-Ag14 myeloma and B-lymphocytes obtained from mouse immunized with human recombinant wild type p53 (wt p53).

Product Info

Amount :	40 µg
Purification :	Protein A chromatography
Content :	0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.
Storage condition :	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Application Note

ELISA: 0.05-0.1 µg/ml
Western blot: 1-2 µg/ml
Flow cytometry: 2 µg for 1 x 10^6 cells

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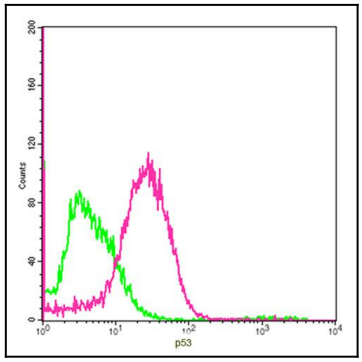


Figure-1 : Flow cytometric analysis of p53 Antibody (Clone: 5H7B9) on HEK293 cells at 2 µg for 1 x 10^6 cells. Red histogram represents p53 Antibody (Clone: 5H7B9) and green histogram represents isotype control.

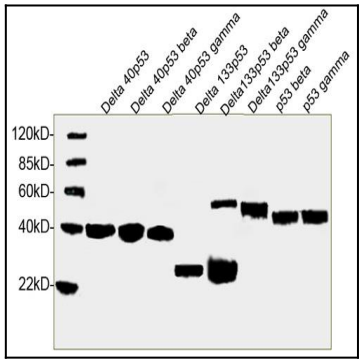


Figure-2 : Western blot analysis of p53 Antibody (Clone: 5H7B9) at 1 µg/ml on human recombinant p53 isoforms (Delta 40p53, Delta 40p53 beta, Delta 40p53 gamma, Delta 133p53, Delta133p53 beta, Delta 133p53 gamma, p53 beta, p53 gamma).

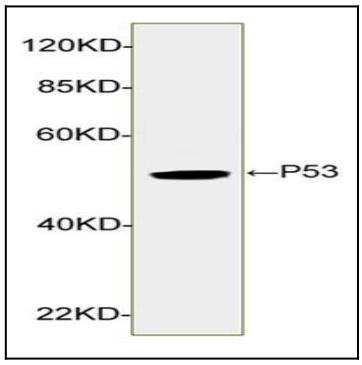


Figure-3 : Western blot analysis of p53 Antibody (Clone: 5H7B9) at 1 µg/ml on UV-treated HEK293 cell lysates.

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