## **p53**

CONTACT INFORMATION: Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas

STATUS: Validated

TYPE: rat anti mouse CLONE NAME: POE316A

PROTEIN: Mus musculus transformation related protein 53 (Trp53)

ANTIGEN USED: His-GST-mp53 recombinant protein FUSION PARTNER: myeloma p3-NS1/Ag4-1 (NS1) cells

ISOTYPE: IgG2a SPECIES REACTIVITY: mouse

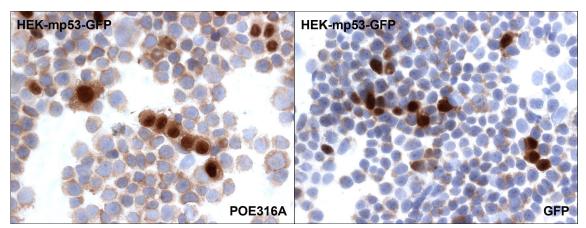
PREPARATION AND STORAGE: Aliquot and store at 4C. Do not freeze

### **DESCRIPTION**

p53 also known as cellular tumor antigen p53 or phosphoprotein p53 or tumor suppressor p53 is a protein that in humans is encoded by the TP53 gene. The p53 protein is crucial in multicellular organisms, where it regulates the cell cycle and, thus, functions as a tumor suppressor, preventing cancer. As such, p53 has been described as "the guardian of the genome" because of its role in conserving stability by preventing genome mutation.

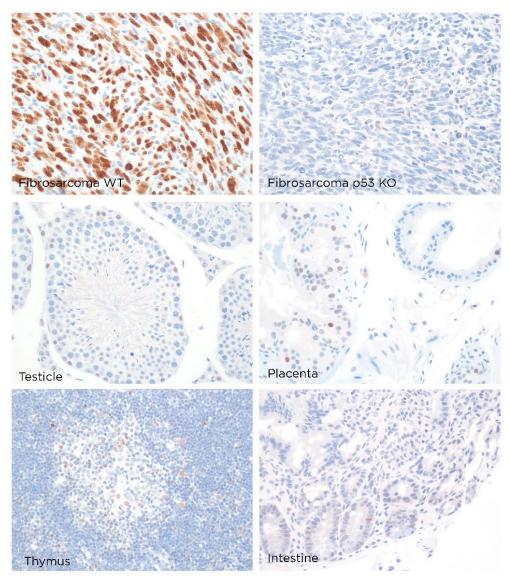
### **APPLICATIONS**

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and	d cytos	pins							
Paraffin tissue									
Recommended	POE3	1:2	supernatant			mouse intestine		nuclear	
	16A								
Immunofluoresce	ence								



POE316A mAb in transfected cells

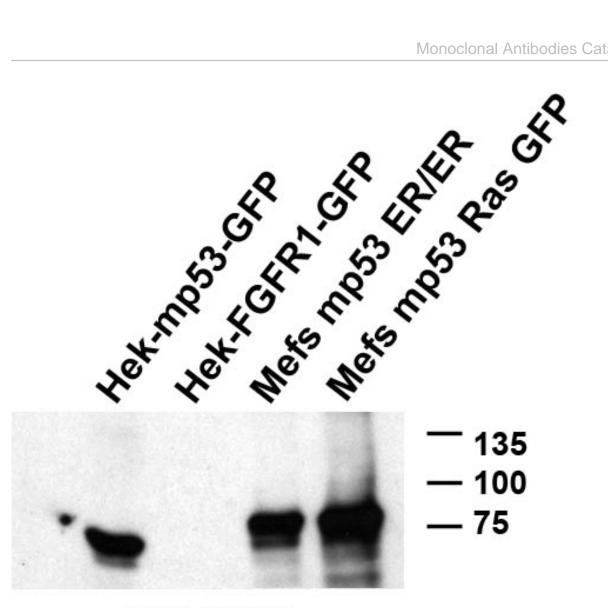
Nuclear and cytoplasmic staining of POE316A mAb in transfected HEK293-mp53-GFP cells. Anti-GFP was used as positive control.



POE316A mAb in mouse paraffin tissues

## Monoclonal Antibodies Catalogue

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Recommended	POE316	neat	supernatant			43kDa		
	Α	supernatant						
Immunoprecipita	tion							



# **POE316A**

### Western Blotting of mp53 (POE316A)

Western Blotting of mp53 using different mouse cell lines and HEK293T transfected cells.

Lane 1 Hek-mp53-GFP transfected cells (20ug) (+)

Lane 2 Hek-FGFR1-GFP transfected cells (20ug) (-)

Lane 3 Mefs mp53 ER/ER cells (100ug) (+)

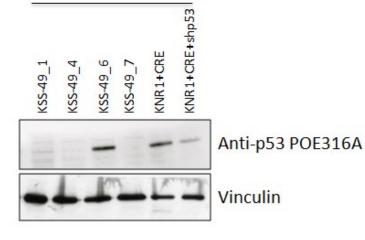
Lane 4 Mefs mp53 ER/ER Ras GFP (100ug) (+)

# KSS Neurospheres generated from pups p53 wt or lox/lox and KNR neurospheres p53 wt infected with shp53

10Gy

# Genotype from the KSS pups

pups	P53	
49_1	Lox/Lox	
49_4	Lox/Lox	
49_6	+/+	
49_7	Lox/Lox	



### Western Blotting of mp53 (POE316A)

Predicted molecular weight: 43kDa Observed molecular weight: 43kDa

#### Lanes

Lane 1 KSS mouse 1 lox/lox (30ug) (-)

Lane 2 KSS mouse 4 lox/lox (30ug) (-)

Lane 3 KSS mouse 6 p53 +/+ (30ug) (+)

### Monoclonal Antibodies Catalogue

Lane 4 KSS mouse 7 lox/lox (30ug) (-)

Lane 5 KNR1 mouse+CRE (30ug) (+)

Lane 6 KNR1 mouse+CRE+shp53 (30ug) (+/-)

Image kindly provided by Barbara Oldrini.