

## p53

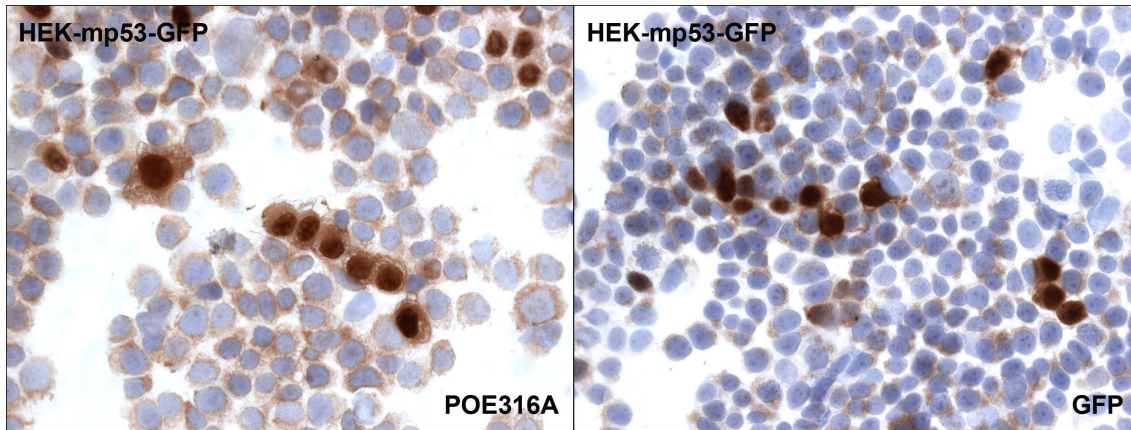
<b>CONTACT INFORMATION:</b>	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
<b>STATUS:</b>	Validated
<b>TYPE:</b>	rat anti mouse
<b>CLONE NAME:</b>	POE316A
<b>PROTEIN:</b>	Mus musculus transformation related protein 53 (Trp53)
<b>ANTIGEN USED:</b>	His-GST-mp53 recombinant protein
<b>FUSION PARTNER:</b>	myeloma p3-NS1/Ag4-1 (NS1) cells
<b>ISOTYPE:</b>	IgG2a
<b>SPECIES REACTIVITY:</b>	mouse
<b>PREPARATION AND STORAGE:</b>	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.

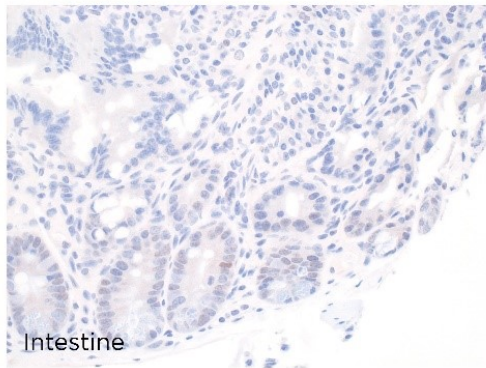
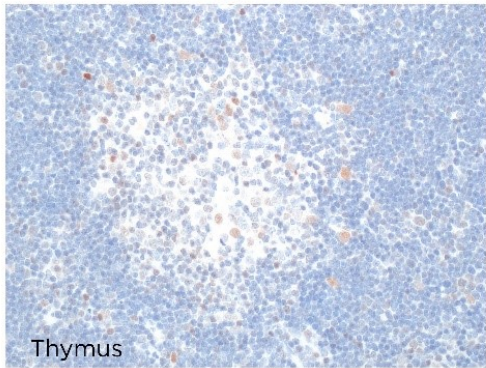
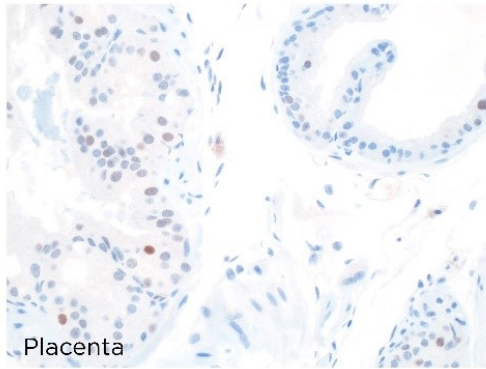
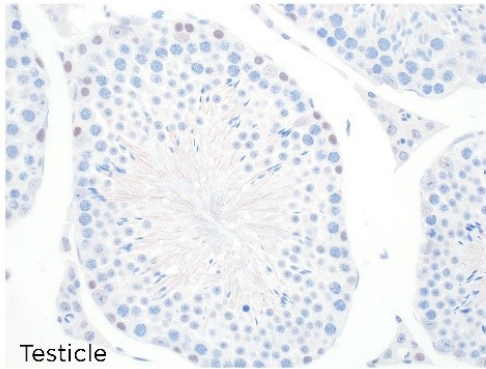
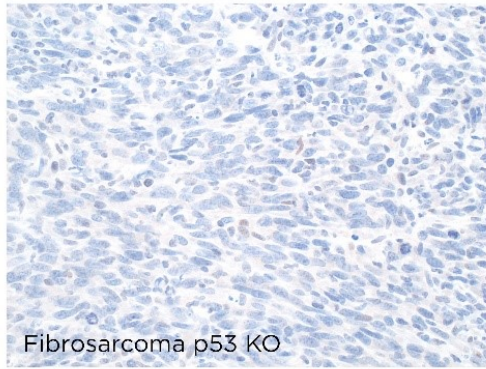
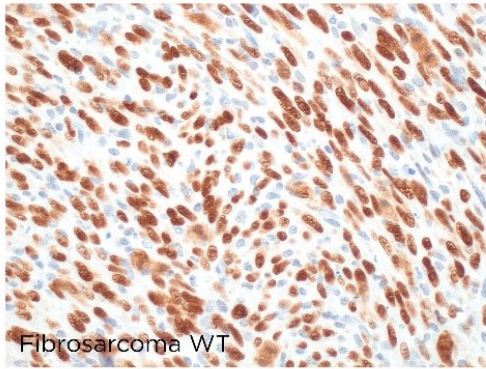
### APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
<b>Frozen tissue and cytopins</b>									
<b>Paraffin tissue</b>									
Recommended	POE3 16A	1:2	supernatant			mouse intestine		nuclear	
<b>Immunofluorescence</b>									



**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.

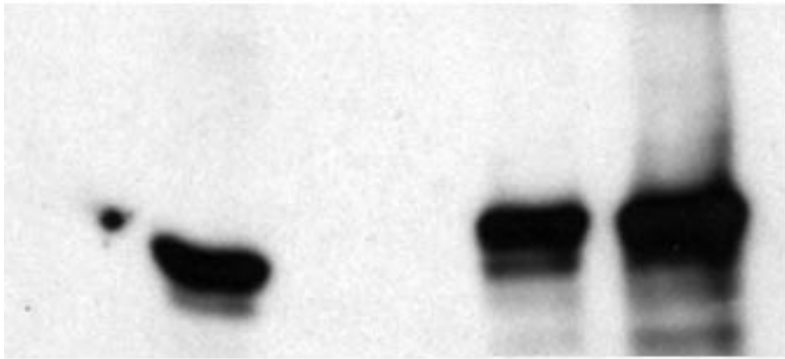


**POE316A mAb in mouse paraffin tissues**

## Monoclonal Antibodies Catalogue

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
<b>Western Blotting</b>								
Recommended	POE316 A	neat supernatant	supernatant			43kDa		
<b>Immunoprecipitation</b>								

Hek-mp53-GFP  
Hek-FGFR1-GFP  
Mefs mp53 ER/ER  
Mefs mp53 Ras GFP



— 135  
— 100  
— 75

## POE316A

### Western Blotting of mp53 (POE316A)

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

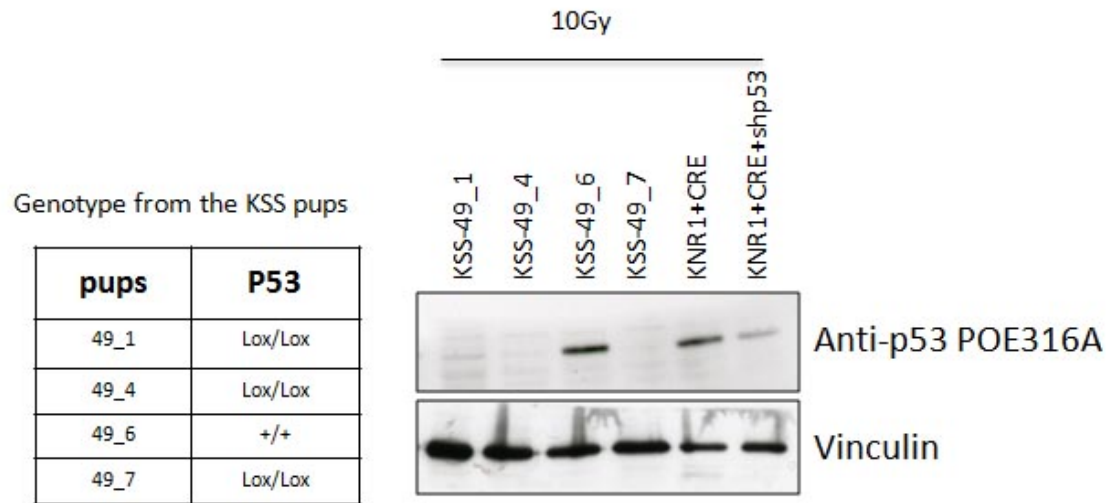
Lane 1 Hek-mp53-GFP transfected cells (20ug) (+)

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



#### 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) (+)

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.