

## SIRT6 mouse mAb

<b>Catalog No :</b>	YM1275
<b>Reactivity :</b>	Human;Mouse;Rat;Monkey
<b>Applications :</b>	WB;IF;IP
<b>Target :</b>	SIRT6
<b>Fields :</b>	>>Nicotinate and nicotinamide metabolism;>>Metabolic pathways;>>Thermogenesis;>>Central carbon metabolism in cancer
<b>Gene Name :</b>	sirt6
<b>Human Gene Id :</b>	51548
<b>Human Swiss Prot No :</b>	Q8N6T7
<b>Mouse Swiss Prot No :</b>	P59941
<b>Immunogen :</b>	Purified recombinant human SIRT6 protein expressed in E.coli.
<b>Specificity :</b>	This antibody detects endogenous levels of SIRT6 and does not cross-react with related proteins.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	wb 1:500 IF icc 1:100
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	42kD

## Background :

This gene encodes a member of the sirtuin family of NAD-dependent enzymes that are implicated in cellular stress resistance, genomic stability, aging and energy homeostasis. The encoded protein is localized to the nucleus, exhibits ADP-ribosyl transferase and histone deacetylase activities, and plays a role in DNA repair, maintenance of telomeric chromatin, inflammation, lipid and glucose metabolism. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016],

## Function :

catalytic activity:NAD(+) + protein-L-arginine = nicotinamide + N(omega)-(ADP-D-ribosyl)-protein-L-arginine.,catalytic activity:NADP(+) + protein-L-arginine = nicotinamide + N(omega)-((2'-phospho-ADP)-D-ribosyl)-protein-L-arginine.,cofactor:Binds 1 zinc ion per subunit.,PTM:ADP-ribosylated (-auto).,similarity:Belongs to the sirtuin family.,similarity:Contains 1 deacetylase sirtuin-type domain.,subcellular location:Predominantly nuclear.,

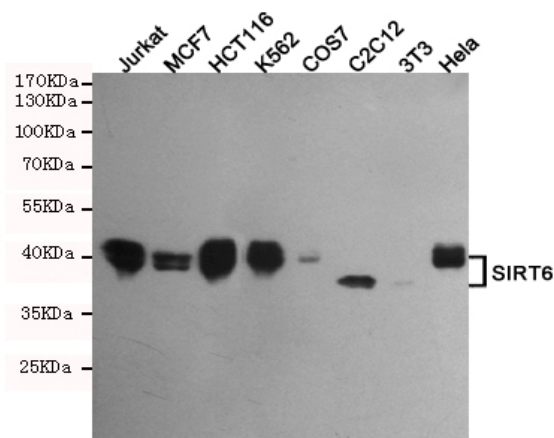
## Subcellular Location :

Nucleus . Chromosome . Chromosome, telomere . Endoplasmic reticulum . Predominantly nuclear (PubMed:18337721). Associated with pericentric heterochromatin and telomeric heterochromatin regions (PubMed:18337721, PubMed:27043296). Localizes to DNA damage sites: directly recognizes and binds double-strand breaks (DSBs) sites via a tunnel-like structure that has high affinity for DSBs (PubMed:21680843, PubMed:23911928, PubMed:27568560, PubMed:31995034, PubMed:32538779). A fraction localizes to the endoplasmic reticulum (PubMed:23552949). .

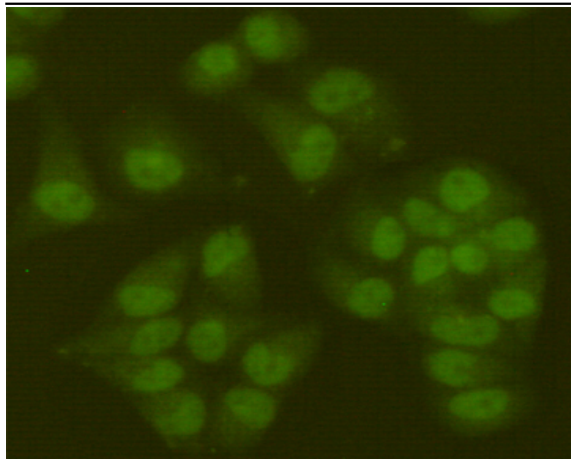
## Expression :

Blood, Eye, Lung, Placenta, Spleen, Teratocarcinoma,

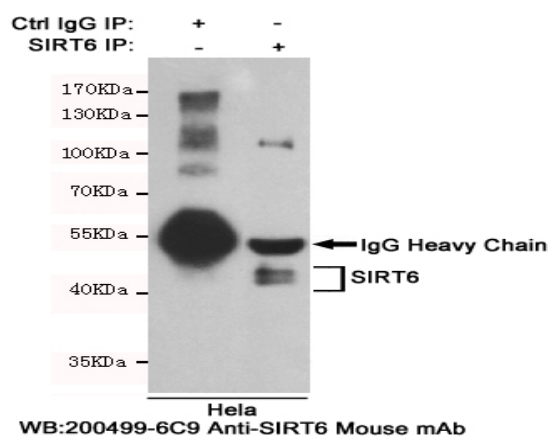
## Products Images



Western blot analysis of extracts from Jurkat, MCF7, HCT116, K562, COS7, C2C12, 3T3 and HeLa cell lysates using SIRT6 mouse mAb (1:500 diluted). Predicted band size: 42,36KDa. Observed band size: 42,36KDa.



Immunofluorescent analysis of HeLa cells fixed by 4% paraformaldehyde and using SIRT6 mouse mAb (dilution 1:100).



Immunoprecipitation analysis of HeLa cell lysates using SIRT6 mouse mAb.