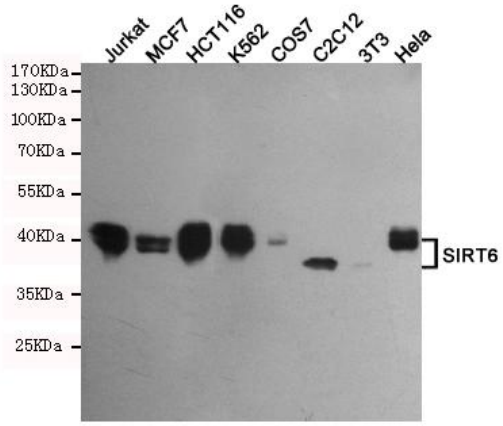
SIRT6 mouse mAb

Catalog No	YP-mAb-04468
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	sirt6
Protein Name	
Immunogen	Purified recombinant human SIRT6 protein expressed in E.coli.
Specificity	This antibody detects endogenous levels of SIRT6 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	2810449N18Rik;AI043036;Mono ADP ribosyltransferase sirtuin 6;NAD-dependent protein deacetylase sirtuin-6;Regulatory protein SIR2 homolog 6;Regulatory protein SIR2 homolog;SIR2 like 6;SIR2 like protein 6;Sir2 related protein type 6;SIR2-like protein 6;SIR2
Observed Band	42kD
Cell Pathway	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). .
Tissue Specificity	Blood,Eye,Lung,Placenta,Spleen,Teratocarcinoma,
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.,

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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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.