

## SIRT6 Polyclonal Antibody

Catalog number: 13572-1-AP

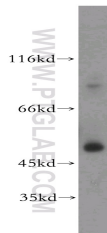
Size: 43 µg/150 µl

Source: Rabbit

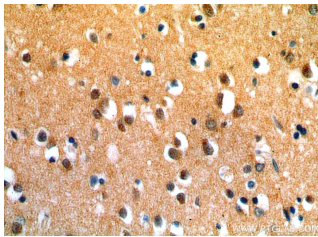
Isotype: IgG

Synonyms:

SIRT6; SIR2L6



human brain tissue were subjected to SDS PAGE followed by western blot with 13572-1-AP(SIRT6 Antibody) at dilution of 1:800



Immunohistochemistry of paraffin-embedded human brain using 13572-1-AP(SIRT6 Antibody) at Dilution 1:50 (under 40x lens)

### Background

SIRT6, also named as SIR2L6, belongs to the sirtuin family. SIRT6 is a member of a highly conserved family of NAD<sup>+</sup>-dependent deacetylases with various roles in metabolism, stress resistance, and life span. It has deacetylase activity towards 'Lys-9' and 'Lys-56' of histone H3. SIRT6 modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle. It deacetylates 'Lys-9' of histone H3 at NF-kappa-B target promoters and may down-regulate the expression of a subset of NF-kappa-B target genes. SIRT6 may be required for the association of WRN with telomeres during S-phase and for normal telomere maintenance. It is required for genomic stability. And it is required for normal IGF1 serum levels and normal glucose homeostasis. It modulates cellular senescence and apoptosis. It regulates the production of TNF protein. SIRT6 acts as a histone deacetylase to directly repress multiple glycolytic genes. SIRT6 also functions as a corepressor of the transcription factor Hif1α. Loss of SIRT6 increases glycolysis and diminishes mitochondrial respiration. SIRT6 plays a key role in regulating glucose homeostasis.

### Applications

Tested applications:	ELISA, WB, IHC
Species specificity:	Human, mouse, rat; other species not tested.
Positive WB detected in:	Human brain tissue, HeLa cells
Calculated SIRT6 MW:	328aa,36kd
Observed SIRT6 MW:	45-50kd
Positive IHC detected in:	Human brain
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation, FC = Flow cytometry

### Immunogen information

Immunogen:	Ag4469
GenBank accession number:	BC028220
Gene ID (NCBI):	51548
Full name:	Sirtuin (silent mating type information regulation 2 homolog) 6 ( <i>S. cerevisiae</i> )

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.