10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Sirtuin 6, human recombinant protein

SIRT6, NAD-dependent Deacetylase Sirtuin-6; Mono-ADP-ribosyltransferase Sirtuin 6; SIR2-like Protein

Catalog # PBV11187r

Specification

Sirtuin 6, human recombinant protein - Product info

Primary Accession	Q8N6T7
Calculated MW	**~45.0 kDa. Human sirtuin 6 (aa 1-355) is fused at the N-terminus to a His-tag. KDa**

Sirtuin 6, human recombinant protein - Additional Info

Gene ID	**51548**
Gene Symbol	**SIRT6**

Other Names
SIRT6, NAD-dependent Deacetylase Sirtuin-6; Mono-ADP-ribosyltransferase Sirtuin 6; SIR2-like Protein 6; SIR2L6

Gene Source	**Human**
Source	**E. coli**
Assay&Purity	**SDS-PAGE; ≥90%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**

Target/Specificity
Sirtuin 6

Format
Liquid

Storage
-20°C; 0.2 µm-filtered solution in 55 mM Tris-Cl, pH 8.2, containing 150 mM NaCl.

Sirtuin 6, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Sirtuin 6, human recombinant protein - Images

Sirtuin 6, human recombinant protein - Background

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Sirtuin 6 (SIRT6) is a NAD-dependent protein deacetylase with activity towards 'Lys-9' and 'Lys-56' of histone H3. It modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle. It is required for genomic stability and for normal IGF1 serum levels and normal glucose homeostasis. It also regulates cellular senescence and apoptosis. Unlike most sirtuins, SIRT6 preferentially removes long-chain fatty-acyl, rather than acetyl, protein modifications. This activity regulates secretion of the inflammation-associated protein TNF-α.

Sirtuin 6, human recombinant protein - References

Frye R.A.,et al.Biochem. Biophys. Res. Commun. 273:793-798(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Grimwood J.,et al.Nature 428:529-535(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.