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Product datasheet for TA363017

Sirt7 Rabbit Polyclonal Antibody

Product data:

| Product Type: | Primary Antibodies |
|-------------------------|---|
| Applications: | WB |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Immunogen: | The immunogen is a synthetic peptide directed towards the middle region of mouse SIRT7 |
| Specificity: | Expected reactivity: Mouse |
| Formulation: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. Note that this product is shipped as lyophilized powder to China customers |
| Concentration: | lot specific |
| Purification: | Affinity purified |
| Conjugation: | Unconjugated |
| Storage: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 45 kDa |
| Gene Name: | sirtuin 7 |
| Database Link: | <u>NP_694696.2</u> <u>Entrez Gene 209011 Mouse</u> <u>Q8BKJ9</u> |



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GRIGENE Sirt7 Rabbit Polyclonal Antibody – TA363017

Background: NAD-dependent protein deacetylase that specifically mediates deacetylation of histone H3 at 'Lys-18' (H3K18Ac). In contrast to other histone deacetylases, displays selectivity for a single histone mark, H3K18Ac, directly linked to control of gene expression. H3K18Ac is mainly present around the transcription start site of genes and has been linked to activation of nuclear hormone receptors. SIRT7 thereby acts as a transcription repressor. Moreover, H3K18 hypoacetylation has been reported as a marker of malignancy in various cancers and seems to maintain the transformed phenotype of cancer cells. These data suggest that SIRT7 may play a key role in oncogenic transformation by suppresses expression of tumor suppressor genes by locus-specific deacetylation of H3K18Ac at promoter regions (By similarity). Required to restore the transcription of ribosomal RNA (rRNA) at the exit from mitosis. Promotes the association of RNA polymerase I with the rDNA promoter region and coding region. Stimulates transcription activity of the RNA polymerase I complex. May also deacetylate p53/TP53 and promotes cell survival, however such data need additional confirmation.

Synonyms:

MGC126840; MGC126842; SIR2L7

Product images:



Host: Rabbit Target Name: SIRT7 Sample Tissue: Mouse Brain lysates Antibody Dilution: 1ug/ml

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