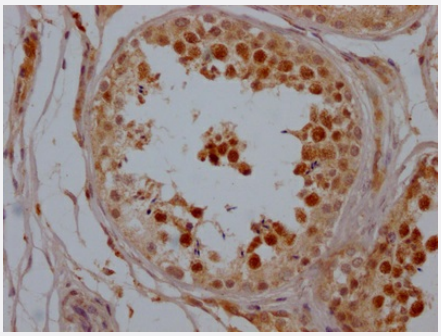
RecomAb™

SIRT1 recombinant monoclonal antibody, clone 9E9

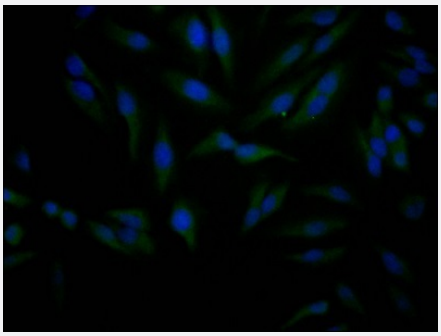
Catalog # RAB07482 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human testis tissue using SIRT1 recombinant monoclonal antibody, clone 9E9 (Cat # RAB07482) on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence

Immunofluorescent staining of Hela Cells with SIRT1 recombinant monoclonal antibody, clone 9E9 (Cat # RAB07482). The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human SIRT1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human SIRT1.
Reactivity	Human
Form	Liquid

Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Immunofluorescence

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — SIRT1

Entrez GeneID	23411
Protein Accession#	Q96EB6
Gene Name	SIRT1
Gene Alias	SIR2L1
Gene Description	sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)

Omim ID	604479
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four cla sses. The functions of human sirtuins have not yet been determined; however, yeast sirtuin protein s are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ri bosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin famil y. Alternative splicing results in multiple transcript variants. [provided by RefSeq
Other Designations	OTTHUMP00000019691|OTTHUMP00000060745|SIR2alpha|sir2-like 1|sirtuin 1|sirtuin type 1

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Cognition
- Depressive Disorder
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Insulin Resistance
- Kidney Failure
- Lymphoma
- Obesity
- Overweight
- Psychiatric Status Rating Scales
- Tobacco Use Disorder