Product Datasheet

SIRT3 Rabbit mAb

Catalog No: #52579

Package Size: #52579-1 50ul #52579-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

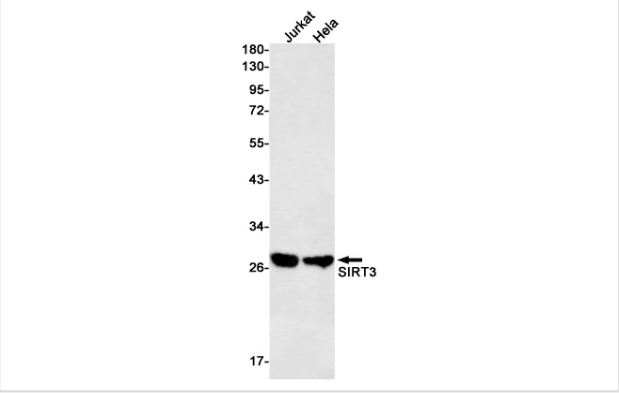
Description

Product Name	SIRT3 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S03-1F5
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IHC
Species Reactivity	Human
Immunogen Description	A synthetic peptide of human SIRT3
Conjugates	Unconjugated
Modification	Unmodification
Other Names	SIR2L3
Accession No.	Swiss-Prot:Q9NTG7GeneID:23410
Uniprot	Q9NTG7
GeneID	23410
Calculated MW	Calculated MW: 44 kDa; Observed MW: 28 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

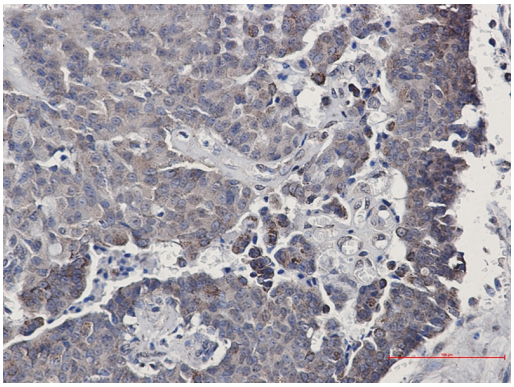
Application Details

WB: 1/1000; IHC: 1/50

Images



Western blot detection of SIRT3 in Jurkat,Hela cell lysates using SIRT3 Rabbit mAb(1:500 diluted).Predicted band size:44kDa.Observed band size:28kDa.



Immunohistochemistry of SIRT3 in paraffin-embedded Human breast cancer tissue using SIRT3 Rabbit mAb at dilution 1/50

Background

Swiss-Prot Acc.Q9NTG7.NAD-dependent protein deacetylase (PubMed:12186850, PubMed:12374852, PubMed:16788062, PubMed:18680753, PubMed:18794531, PubMed:23283301, PubMed:24121500, PubMed:24252090, PubMed:19535340). Activates or deactivates mitochondrial target proteins by deacetylating key lysine residues (PubMed:12186850, PubMed:12374852, PubMed:16788062, PubMed:18680753, PubMed:18794531, PubMed:23283301, PubMed:24121500, PubMed:24252090). Known targets include ACSS1, IDH, GDH, SOD2, PDHA1, LCAD, SDHA and the ATP synthase subunit ATP5PO (PubMed:16788062, PubMed:18680753, PubMed:24121500, PubMed:24252090, PubMed:19535340). Contributes to the regulation of the cellular energy metabolism (PubMed:24252090). Important for regulating tissue-specific ATP levels (PubMed:18794531). In response to metabolic stress, deacetylates transcription factor FOXO3 and recruits FOXO3 and mitochondrial RNA polymerase POLRMT to mtDNA to promote mtDNA transcription (PubMed:23283301).

Note: This product is for in vitro research use only