

**PAE914Mu01****Polyclonal Antibody to Sirtuin 4 (SIRT4)****Organism Species: *Mus musculus* (Mouse)*****Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

**[ PRODUCT INFORMATION ]****Immunogen:** SIRT4, Mouse**Clonality:** Polyclonal**Host:** Rabbit**Immunoglobulin Type:** IgG**Purification:** Affinity Chromatography.**Applications:** WB, ICC, IHC-P, IHC-F, ELISA**Concentration:** 200µg/mL**UOM:** 100µg**[ IMMUNOGEN INFORMATION ]****Immunogen:** Recombinant SIRT4 (Ser26~Pro333) expressed in *E.coli*.**Accession No.:** RPE914Mu01**Sequence:** The target protein is fused with N-terminal His-Tag and its sequence is listed below.

MGHHHHHSG SEF-SGLFV PPSPLDPEK IKELQRFISL SKLLVMTGA GISTESGIPD  
YRSEKVGLYA RTDRRPIQHI DFVRSAPVRQ RYWARNFVGW PQFSSHQPNP  
AHWALSNER LGKLHWLVLTQ NVDALHSHKAG SQRLTELVHGC MHRVLCNLNG  
EQTARRVLQE RFQALNPSWS AEAQGVAPDG DVFLTEEQVR SFQVPCCDRG  
GGPLKPDVVF FGDTVNPDKV DFVHRRVKEA DSVLVVGSLL QVYSGYRFL TAREQKLP  
ILNIGPTRSD DLACKLDSR CGELLPLIDP RRQHSVQRL EMNFPLSSAA QDP

**[ ANTIBODY SPECIFICITY ]**

The antibody is a rabbit polyclonal antibody raised against SIRT4. It has been selected for its ability to recognize SIRT4 in immunohistochemical staining and western blotting.

**[ APPLICATIONS ]**

Western blotting: 1:100-400

Immunocytochemistry in formalin fixed cells: 1:100-500

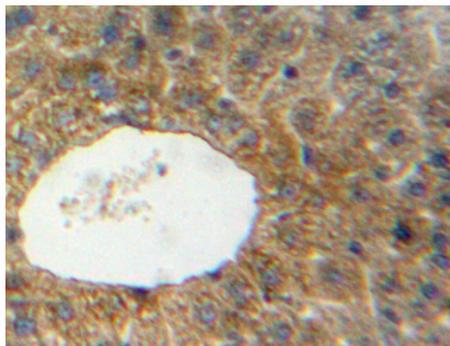
Immunohistochemistry in formalin fixed frozen section: 1:100-500

Immunohistochemistry in paraffin section: 1:50-200

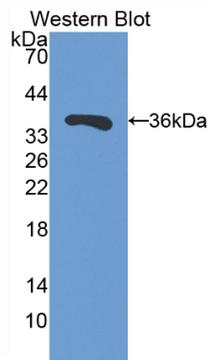
Enzyme-linked Immunosorbent Assay: 1:100-200

Optimal working dilutions must be determined by end user.

## [ IMAGES ]



Used in DAB staining on formalin fixed  
paraffin-embedded liver tissue



Used in Western Blot ,Sample:  
Recombinant SIRT4,Mouse

## [ CONTENTS ]

**Form & Buffer:** Supplied as solution form in PBS, pH7.4, containing 0.02% NaN<sub>3</sub>, 50% glycerol.

## [ QUALITY CONTROL ]

**Content:** The quality control contains recombinant SIRT4 (Ser26~Pro333) disposed in loading buffer.

**Usage:** 10uL per well when 3,3'-Diaminobenzidine(DAB) as the substrate.  
5uL per well when used in enhanced chemiluminescent (ECL).

**Note:** The quality control is specifically manufactured as the positive control. Not used for other purposes.

**Loading Buffer:** 100mM Tris(pH8.8), 2% SDS, 200mM NaCl, 50% glycerol, BPB 0.01%, NaN<sub>3</sub> 0.02%.

## [ STORAGE ]

Store at 4°C for frequent use. Stored at -20°C to -80°C in a manual defrost freezer for one year without detectable loss of activity. Avoid repeated freeze-thaw cycles.