

Ref-1 (Acetyl Lys7) Rabbit pAb

CatalogNo: YK0023

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC

MW

- 35kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized Acetyl-peptide derived from human APE1 around the Acetylation site of Lys7. AA range:1-50

Specificity Acetyl-Ref-1 (K7) Polyclonal Antibody detects endogenous levels of Ref-1 protein only when acetylated at K7. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RGkKG

| Target Information

Gene name APEX1

Protein Name DNA- (apurinic or apyrimidinic site) lyase

Organism	Gene ID	UniProt ID
Human	328 ;	P27695 ;
Mouse		P28352 ;

**Cellular
Localization**

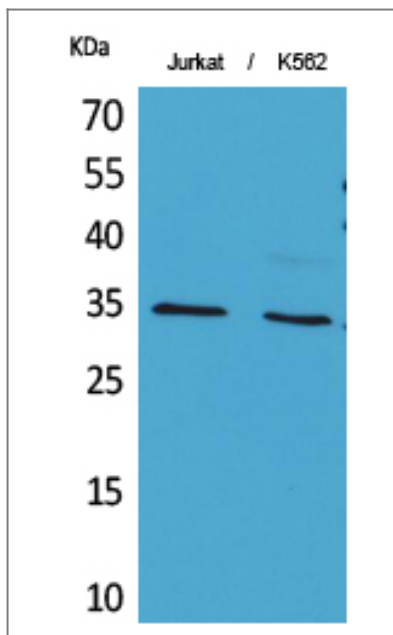
Nucleus. Nucleus , nucleolus. Nucleus speckle. Endoplasmic reticulum. Cytoplasm. Detected in the cytoplasm of B-cells stimulated to switch (By similarity) . Colocalized with SIRT1 in the nucleus. Colocalized with YBX1 in nuclear speckles after genotoxic stress. Together with OGG1 is recruited to nuclear speckles in UVA-irradiated cells. Colocalized with nucleolin and NPM1 in the nucleolus. Its nucleolar localization is cell cycle dependent and requires active rRNA transcription. Colocalized with calreticulin in the endoplasmic reticulum. Translocation from the nucleus to the cytoplasm is stimulated in presence of nitric oxide (NO) and function in a CRM1-dependent manner , possibly as a consequence of demasking a nuclear export signal (amino acid position 64-80) . S-nitrosylation at Cys-93 and Cys-310 regulates its nuclear-cytosolic shuttling. Ubiquitinated form is localized predominantly in the cytoplasm. . ; [DNA- (apurinic or apyrimidinic site) endonuclease , mitochondrial]: Mitochondrion. The cleaved APEX2 is only detected in mitochondria (By similarity) . Translocation from the cytoplasm to the mitochondria is mediated by ROS signaling and cleavage mediated by granzyme A. Tom20-dependent translocated mitochondrial APEX1 level is significantly increased after genotoxic stress. .

Tissue specificity Brain ,Embryonic stem cells ,Lung ,Melanocyte ,Placenta ,Skin ,

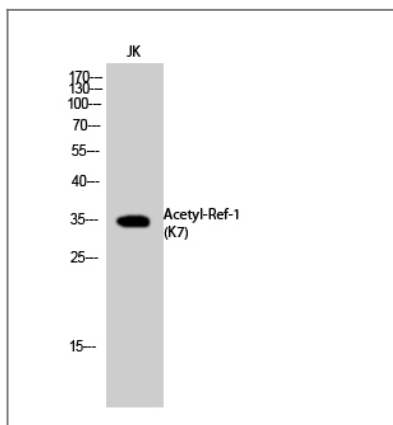
Function

Catalytic activity:The C-O-P bond 3' to the apurinic or apyrimidinic site in DNA is broken by a beta-elimination reaction , leaving a 3'-terminal unsaturated sugar and a product with a terminal 5'-phosphate. ,Function:Repairs oxidative DNA damages in vitro. May have a role in protection against cell lethality and suppression of mutations. Removes the blocking groups from the 3'-termini of the DNA strand breaks generated by ionizing radiations and bleomycin. ,similarity:Belongs to the DNA repair enzymes AP/exoA family. ,subunit:Monomer. Component of the SET complex , which also contains SET , ANP32A , HMGB2 and NME1. ,

| Validation Data



Western Blot analysis of Jurkat, K562 cells using Acetyl-Ref-1 (K7) Polyclonal Antibody. Secondary antibody (catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of JK cells using Acetyl-Ref-1 (K7) Polyclonal Antibody. Secondary antibody (catalog#:RS0002) was diluted at 1:20000

Contact information

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Please scan the QR code to access additional product information:

**Ref-1 (Acetyl Lys7)
Rabbit pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

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