Product Datasheet

Anti-APE1/Ref-1 Rabbit pAb

WL02884

For Research Use Only.Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-APE1/Ref-1 Rabbit pAb
Source	Rabbit
Species reactivity	Human, Mouse, Rat
Tested applications	WB 1:500-1:1000 IHC, IF 1:100-1:400
Cellular localization	Cytoplasm;Endoplasmic reticulum;Mitochondrion;Nucleus
Pack size	50/100/200/500/1000µl
Storage	Store at -20°C. Avoid freeze/thaw cycles.
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide

General Information

Background

Apurinic/apyrimidinic (AP) sites occur frequently in DNA molecules by spontaneous hydrolysis, by DNA damaging agents or by DNA glycosylases that remove specific abnormal bases.Ape1 (Apurinic/Apyrimidic eEndonuclease 1), also known as Ref1 (Redox effector factor 1), is a multifunctional protein with several biological activities. These include roles in DNA repair and in the cellular response to oxidative stress. Ape1 initiates the repair of abasic sites and is essential for the base excision repair (BER) pathway. Repair activities of Ape1 are stimulated by interaction with XRCC1 , another essential protein in BER. Ape1 functions as a redox factor that maintains transcription factors in an active, reduced state but can also function in a redox-independent manner as a transcriptional cofactor to control different cellular fates such as apoptosis, proliferation and differentiation.

Immunogen

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of APE1/Ref-1.

Purification

Polyclonal antibody was purified by immunogen affinity chromatography.

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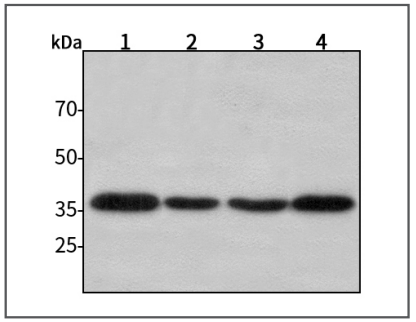
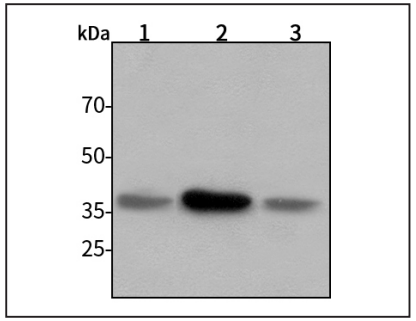
Product Images



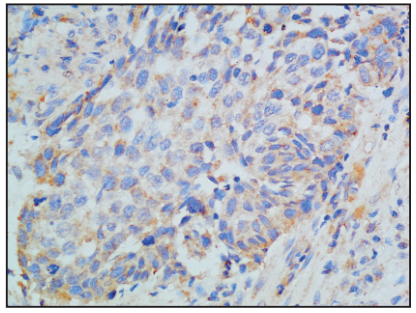
Western blot-Anti-APE1/Ref-1 pAb

Lane 1: Human HepG2 cell lysate
Lane 2: Human Hela cell lysate
Lane 3: Human BGC-823 cell lysate
Lane 4: Human MGC-803 cell lysate
All lanes: Anti-APE1/Ref-1 at 1:1000 dilution
Lysates/proteins at 20-50 µg per lane.
Predicted band size: 35 kDa
Observed band size: 37 kDa



Western blot-Anti-APE1/Ref-1 pAb

Lane 1: Mouse kidney tissue lysate
Lane 2: Mouse heart tissue lysate
Lane 3: Rat brain tissue tissue lysate
All lanes: Anti-APE1/Ref-1 at 1:1000 dilution
Lysates/proteins at 20-50 µg per lane.
Predicted band size: 35 kDa
Observed band size: 37 kDa



Immunohistochemistry-Anti-APE1/Ref-1 pAb

Immunohistochemical analysis of paraffin-embedded human esophageal cancer using anti-APE1/Ref-1 Rabbit Antibody at 1:100 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

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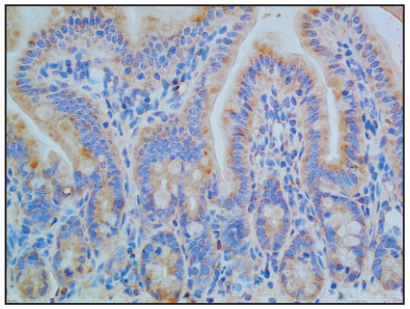
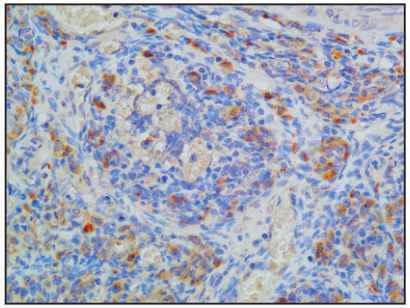


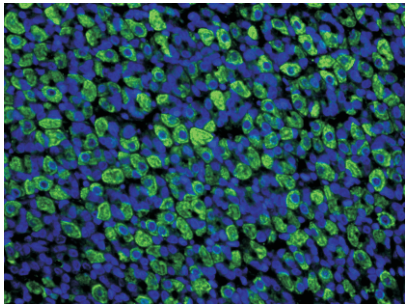
Immunohistochemistry-Anti-APE1/Ref-1 pAb

Immunohistochemical analysis of paraffin-embedded mouse intestine using anti-APE1/Ref-1 Rabbit Antibody at 1:100 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunohistochemistry-Anti-APE1/Ref-1 pAb

Immunohistochemical analysis of paraffin-embedded rat ovary using anti-APE1/Ref-1 Rabbit Antibody at 1:100 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



Immunofluorescence-Anti-APE1/Ref-1 pAb

Immunofluorescence analysis of paraffin-embedded rat stomach using anti-APE1/Ref-1 Rabbit Antibody at 1:100 dilution.
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0