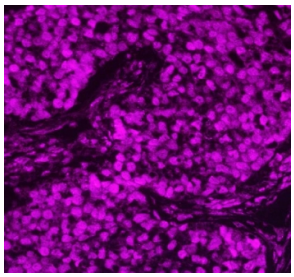
APEX1 Antibody / APE1 (R30567)

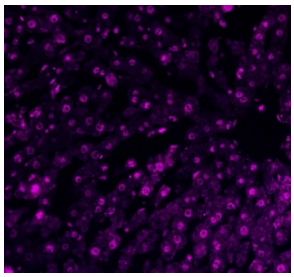
Catalog No.	Formulation	Size
R30567	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

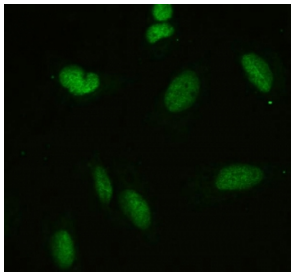
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P27695
Localization	Nucleus, cytoplasm, ER, mitochondria
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml
Limitations	This APE1 antibody is available for research use only.



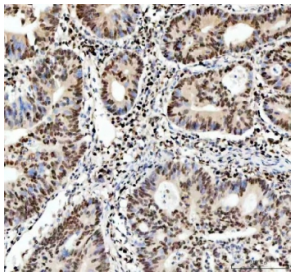
Immunofluorescent staining of FFPE human lung cancer tissue with APEX1 antibody (red). HIER: steam section in pH8 EDTA buffer for 20 min.



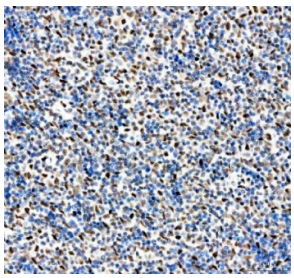
Immunofluorescent staining of FFPE rat liver tissue with APEX1 antibody (red). HIER: steam section in pH8 EDTA buffer for 20 min.



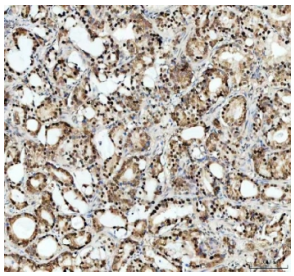
Immunofluorescent staining of FFPE human U-2 OS cells with APEX1 antibody (green). HIER: steam section in pH6 citrate buffer for 20 min.



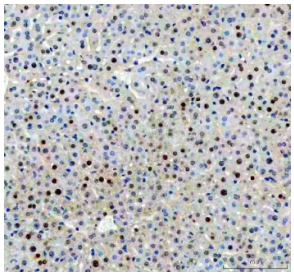
IHC staining of FFPE human colon adenocarcinoma tissue with APEX1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



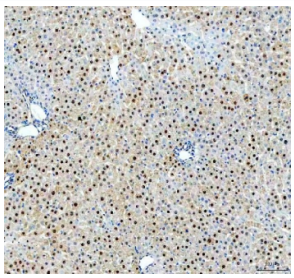
IHC staining of FFPE human spleen tissue with APEX1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



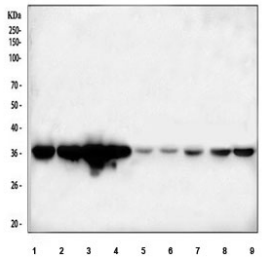
IHC staining of FFPE human prostate cancer tissue with APEX1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse liver tissue with APEX1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat liver tissue with APEX1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human K562, 2) human HepG2, 3) human Raji, 4) human RT4, 5) rat C6, 6) rat PC-12, 7) mouse HEPA1-6, 8) mouse RAW264.7 and 9) mouse ANA-1 cell lysate with APEX1 antibody. Predicted molecular weight ~38 kDa.

Description

APEX1, or Apurinic endonuclease 1 (APE1), which contains probable nuclear transport signals, was identified as a member of a family of DNA repair enzymes found in lower organisms. The abundance of the large form of the protein was increased in leiomyoma extracts relative to myometrial tissue extracts, and the large form was dominant in cell lines derived from leiomyosarcomas. The exonuclease activity of nuclear APEX1 can remove the anti-HIV nucleoside analogs AZT and D4T from the 3-prime terminus of a nick more efficiently than can cytosolic exonucleases.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the APEX1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the middle region of human APEX1 (RGLVRLEYRQRWDEA) was used as the immunogen for this APEX1 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the APEX1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com