

APEX1-2

Uniprot ID: [P27695](#)

Protein name: APEX1_HUMAN

Full name: DNA-(apurinic or apyrimidinic site) lyase

Protein existence: evidence at protein level

Function: Multifunctional protein that plays a central role in the cellular response to oxidative stress. The two major activities of APEX1 in DNA repair and redox regulation of transcriptional factors.

Subcellular location: Nucleus. Nucleus; Nucleolus. Nucleus speckle. Endoplasmic reticulum. Cytoplasm. Mitochondrion. *NOTE:* Detected in the cytoplasm of B-cells stimulated to switch (By similarity).

One antibody: APEX1-2 was tested, approved for IHC and selected for full protein profiling.

APEX1-2 (CAB047307)

OK

Immunohistochemistry

IHC protocol: HIER pH 6, Dilution 1:35000

IHC test staining: Ubiquitously nuclear staining in all tissues. .

IHC Annotators comments

Normal tissues displayed moderate to strong nuclear staining. Additional cytoplasmic staining was observed in thyroid gland, exocrine pancreas and CNS.

Immunofluorescence

IF Overlay: antibody (green), anti-tubuline (red) and DAPI (blue)

IF Localization: Staining of nucleus in all three cell lines

IF Validation: The subcellular location is supported by literature.

Western blot

WB Size markers (kDa): 250, 130, 95, 72, 55, 36, 28, 17, 11

WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)

WB Target weight (kDa): 36, 19, 36, 36, 17, 12, 29, 4, 6, 16, 18, 27, 19, 5

WB Validation: Supportive - Band of predicted size in kDa (+/-20%) with additional bands present

