

Uniprot ID: [O15527](#)

OGG1-1

Protein name: OGG1_HUMAN

Full name: N-glycosylase/DNA lyase

Protein existence: evidence at protein level

Function: DNA repair enzyme that incises DNA at 8-oxoG residues. Excises 7,8-dihydro-8-oxoguanine and 2,6-diamino-4-hydroxy-5-N-methylformamidopyrimidine (FAPY) from damaged DNA. Has a beta-lyase activity that nicks DNA 3' to the lesion.

Subcellular location: Nucleus; Nucleoplasm. Nucleus speckle. Nucleus matrix. Nucleus. Mitochondrion. *NOTE*: Together with APEX1 is recruited to nuclear speckles in UVA-irradiated cells.

Tissue specificity: Ubiquitous.

OGG1-1 (CAB047301)

OK

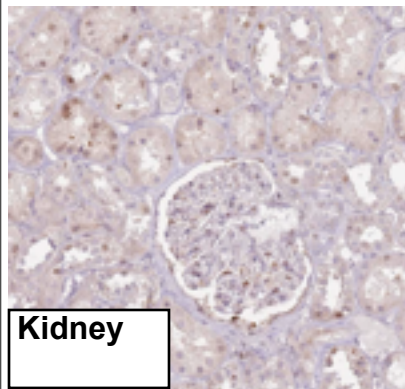
Immunohistochemistry

IHC protocol: HIER pH 6, Dilution 1:50000

IHC test staining: **Moderate nuclear, sometimes nucleoli staining. Limited cytoplasmic positivity in some tissues.**

IHC Annotators comments

Normal tissues displayed moderate to strong cytoplasmic and nuclear immunoreactivity.

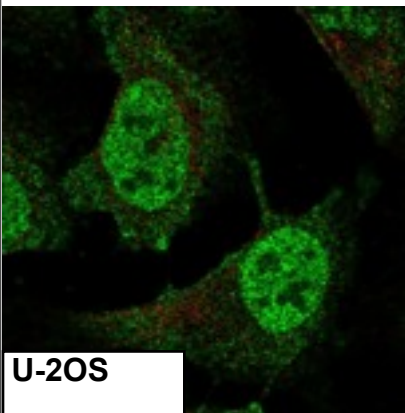


Immunofluorescence

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

IF Localization: Positivity in nucleus but not nucleoli.

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): 40, 46, 39, 6, 22, 47, 14, 40, 36, 21, 24, 29, 36, 19, 15

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

