

# Product Datasheet

## OGG1 Antibody (4E8) - BSA Free NBP2-52722

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-52722**

OGG1 Antibody (4E8) - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4E8
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG2b
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	PBS

**Product Description**

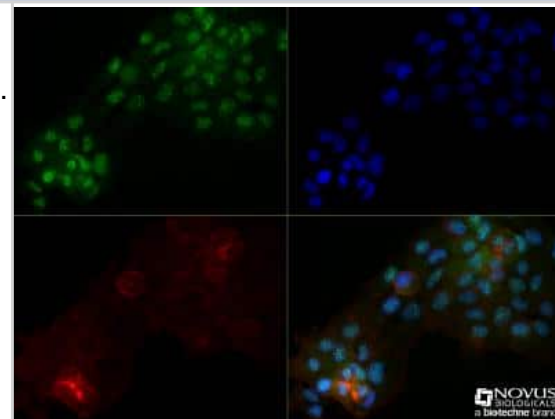
<b>Host</b>	Mouse
<b>Gene ID</b>	4968
<b>Gene Symbol</b>	OGG1
<b>Species</b>	Human
<b>Immunogen</b>	Partial recombinant protein made to an internal sequence of the human OGG1 protein (between amino acids 100-300) [UniProt# O15527]

**Product Application Details**

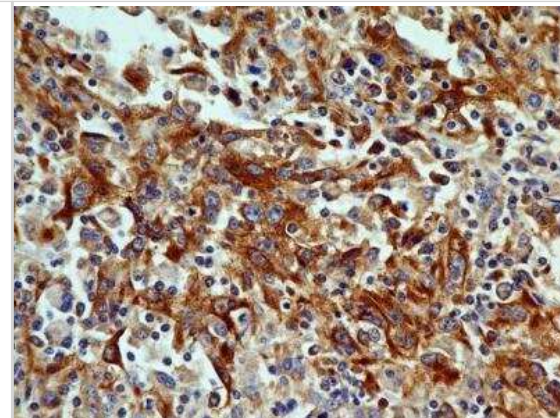
<b>Applications</b>	Flow Cytometry, Flow (Intracellular), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Flow Cytometry 2-5 ug/ml, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 10 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml, Flow (Intracellular)

**Images**

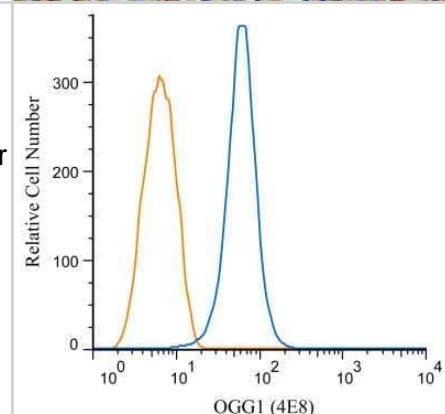
Immunocytochemistry/Immunofluorescence: OGG1 Antibody (4E8) [NBP2-52722] - A431 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with OGG1 (4E8) at a 1:100 dilution overnight at 4C and detected with DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were detected with DAPI (Blue) at 2.0 ug/ml in 1X PBS. Cells were imaged using a 40X objective.



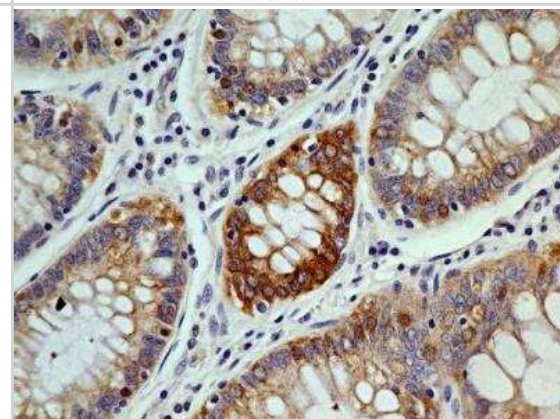
**Immunohistochemistry-Paraffin: OGG1 Antibody (4E8) [NBP2-52722]** - Analysis of OGG1 antibody (clone 4E8) at 5 ug/ml generated a general cytoplasmic staining pattern with intense nuclear staining in select cells renal cell carcinoma.



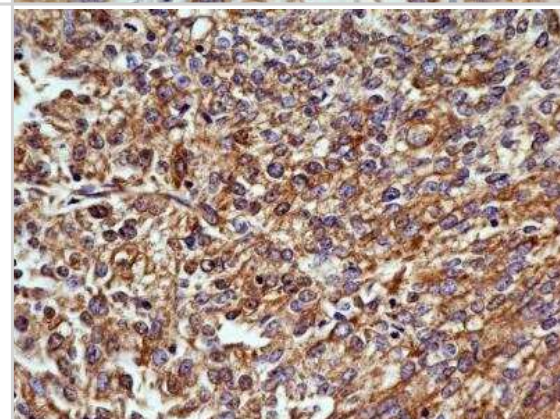
**Flow (Intracellular): OGG1 Antibody (4E8) [NBP2-52722]** - An intracellular stain was performed on HeLa cells with OGG1 (4E8) antibody NBP2-52722 (blue) and a matched isotype control NBP2-27231 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems).



**Immunohistochemistry-Paraffin: OGG1 Antibody (4E8) [NBP2-52722]** - Analysis of OGG1 antibody (clone 4E8) at 5 ug/ml generated a general cytoplasmic staining pattern with intense nuclear staining in select cells rectum adenocarcinoma.



**Immunohistochemistry-Paraffin: OGG1 Antibody (4E8) [NBP2-52722]** - Analysis of OGG1 antibody (clone 4E8) at 5 ug/ml generated a general cytoplasmic staining pattern with intense nuclear staining in select cells endometrial carcinoma.



## Publications

Rizwan H, Kumar S, Kumari G, Pal A High glucose-induced increasing reactive nitrogen species accumulation triggered mitochondrial dysfunction, inflammation, and apoptosis in keratinocytes Life sciences 2022-11-23 [PMID: 36427546] (ICC/IF, Mouse)

Camillo L, Gironi LC, Zavattaro E Et al. NICOTINAMIDE EXERTS A PROTECTIVE EFFECT FROM UV-INDUCED STRESS DAMAGES ON HUMAN PRIMARY KERATINOCYTES FROM CANCERIZATION FIELD The Journal of investigative dermatology 2021-10-22 [PMID: 34695410]





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### **Products Related to NBP2-52722**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)
NBP1-45318-0.1mg	Recombinant Human OGG1 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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