

OGG1 Polyclonal Antibody

Catalog NumberPA5-18747

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Goat / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (IHC)	Dilution *5 µg/mL
Type	Antibody	Western Blot (WB)	0.1-0.3 µg/mL
Immunogen	Synthetic peptide sequence (HPKTSQAKGPSPLANK) corresponding to the internal amino acids of OGG1	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.5 mg/mL		
Purification	Ammonium sulfate precipitation		
Storage buffer	TBS, pH 7.3, with 0.5% BSA		
Contains	0.02% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with mouse based on sequence homology. This antibody is tested in Peptide ELISA: antibody detection limit dilution 128,000.

Background/Target Information

8-hydroxyguanine, a form of oxidative DNA damage induced by free radicals, causes G:C to T:A transversion. In E. Coli, three DNA repair enzymes exist to prevent the mutagenic effects of 8-hydroxyguanine. One of these enzymes, MutM, was found to have a functional yeast (yOgg1) and human (hOgg1) homologue. hOgg1 proteins efficiently released the 8-hydroxyguanine opposite the pyrimidine from DNA and cleaved the AP site in a manner similar to bacterial and yeast enzymes. Genetic backgrounds in control of the repair of damaged DNA are involved in the susceptibility to cancer development. The hOgg1 gene has been mapped to region 3p26. 2, a region showing loss of heterozygosity (LOH) in a variety of cancers. In particular, 3p25-p26 is a common LOH region in lung cancer.

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Product Images For OGG1 Polyclonal Antibody



OGG1 Antibody (PA5-18747) in WB
Western blot analysis of OGG1 using OGG1 Polyclonal Antibody (Product # PA5-18747) (0.1 µg/mL) in staining of Rat Spleen lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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