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NEIL2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant NEIL2.
Catalog # AT3012a

Product Information

Application	WB, E
Primary Accession	Q969S2
Other Accession	BC013964
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1B7
Calculated MW	36826

Additional Information

Gene ID	252969
Other Names	Endonuclease 8-like 2, 322-, DNA glycosylase/AP lyase Neil2, DNA-(apurinic or apyrimidinic site) lyase Neil2, Endonuclease VIII-like 2, Nei homolog 2, NEH2, Nei-like protein 2, NEIL2
Target/Specificity	NEIL2 (AAH13964, 1 a.a. ~ 332 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NEIL2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

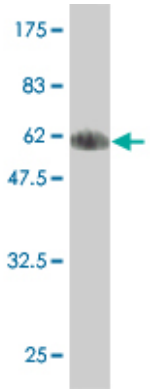
NEIL2 belongs to a class of DNA glycosylases homologous to the bacterial Fpg/Nei family. These glycosylases initiate the first step in base excision repair by cleaving bases damaged by reactive oxygen species and introducing a DNA strand break via the associated lyase reaction (Bandaru et al., 2002 [PubMed 12509226])

References

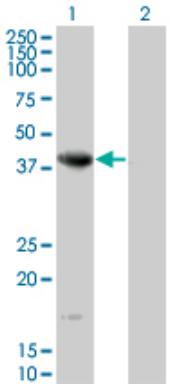
Variation within DNA repair pathway genes and risk of multiple sclerosis. Briggs FB, et al. Am J Epidemiol, 2010 Jul 15. PMID 20522537.Comprehensive screen of genetic variation in DNA repair pathway genes and

postmenopausal breast cancer risk. Monsees GM, et al. Breast Cancer Res Treat, 2010 May 23. PMID 20496165.Inactivation of NEIL2 DNA glycosylase by pyridoxal phosphate reveals a loop important for substrate binding. Grin IR, et al. Biochem Biophys Res Commun, 2010 Mar 26. PMID 20175991.Single nucleotide polymorphisms 5' upstream the coding region of the NEIL2 gene influence gene transcription levels and alter levels of genetic damage. Kinslow CJ, et al. Genes Chromosomes Cancer, 2008 Nov. PMID 18651651.Functional variants of the NEIL1 and NEIL2 genes and risk and progression of squamous cell carcinoma of the oral cavity and oropharynx. Zhai X, et al. Clin Cancer Res, 2008 Jul 1. PMID 18594018.

Images

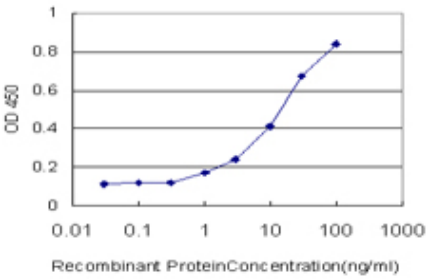


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (62.26 KDa) .

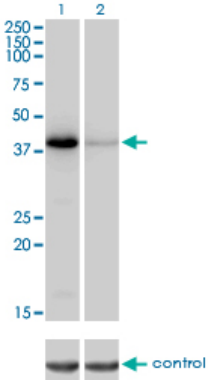


Western Blot analysis of NEIL2 expression in transfected 293T cell line by NEIL2 monoclonal antibody (M01), clone 1B7.

Lane 1: NEIL2 transfected lysate(36.8 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged NEIL2 is approximately 1ng/ml as a capture antibody.



Western blot analysis of NEIL2 over-expressed 293 cell line, cotransfected with NEIL2 Validated Chimera RNAi ((Cat # AT3012a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.