

NEIL2 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a full length recombinant NEIL2.****Catalog # AT3012a****Specification**

NEIL2 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O969S2
Other Accession	BC013964
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	36826

NEIL2 Antibody (monoclonal) (M01) - 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.

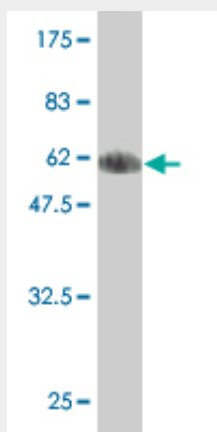
NEIL2 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

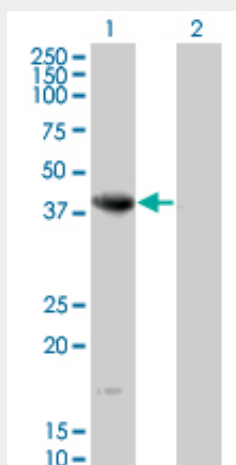
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NEIL2 Antibody (monoclonal) (M01) - Images



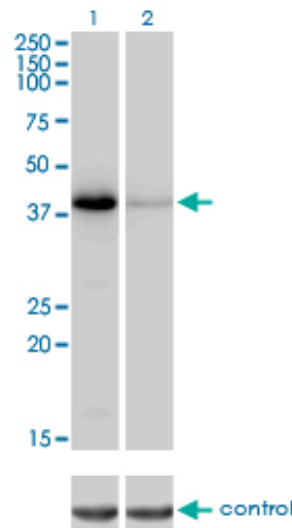
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (62.26 kDa) .



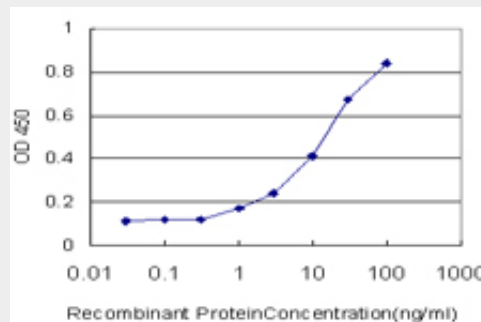
Western Blot analysis of NEIL2 expression in transfected 293T cell line by NEIL2 monoclonal antibody (M01), clone 1B7.

Lane 1: NEIL2 transfected lysate(36.8 kDa).

Lane 2: Non-transfected lysate.



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



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

NEIL2 Antibody (monoclonal) (M01) - 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])

NEIL2 Antibody (monoclonal) (M01) - 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.