

NEIL2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16044a**Specification**

NEIL2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q969S2](#)**NEIL2 Antibody (N-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NEIL2 Antibody (N-term) Blocking Peptide - Protein Information**Name** NEIL2**Function**

Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Has DNA glycosylase activity towards 5- hydroxyuracil and other oxidized derivatives of cytosine with a preference for mismatched double-stranded DNA (DNA bubbles). Has low or no DNA glycosylase activity towards thymine glycol, 2-hydroxyadenine, hypoxanthine and 8-oxoguanine. Has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates.

Cellular Location

Nucleus.

Tissue Location

Detected in testis, skeletal muscle, heart, brain, placenta, lung, pancreas, kidney and liver

NEIL2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NEIL2 Antibody (N-term) Blocking Peptide - Images

NEIL2 Antibody (N-term) Blocking Peptide - 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 [PubMed12509226])

NEIL2 Antibody (N-term) Blocking Peptide - References

Briggs, F.B., et al. Am. J. Epidemiol. 172(2):217-224(2010) Monsees, G.M., et al. Breast Cancer Res. Treat. (2010) In press : Grin, I.R., et al. Biochem. Biophys. Res. Commun. 394(1):100-105(2010) Kinslow, C.J., et al. Genes Chromosomes Cancer 47(11):923-932(2008) Zhai, X., et al. Clin. Cancer Res. 14(13):4345-4352(2008)