Product Datasheet

EPHA10 Antibody

Catalog No: #34674

Package Size: #34674-1 50ul #34674-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

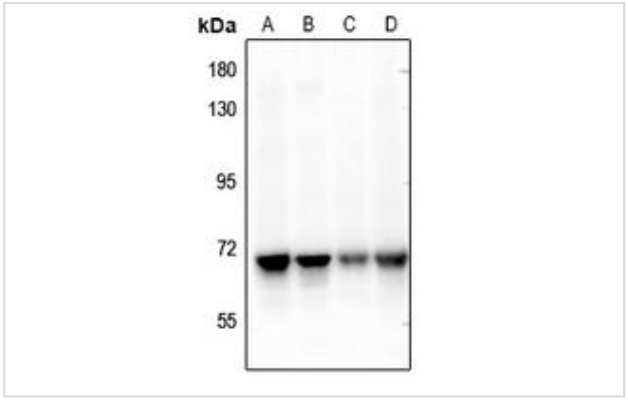
Description

Product Name	EPHA10 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was purified by immunogen affinity chromatography.
Applications	WB IHC
Species Reactivity	Human Mouse Rat
Specificity	The antibody detects endogenous levels of total NEIL3 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide of human NEIL3.
Target Name	EPHA10
Other Names	Endonuclease VIII-like 3; Nei-like 3; DNA glycosylase FPG2;
Accession No.	Swiss-Prot: Q8TAT5NCBI Gene ID: 55247
Uniprot	Q8TAT5
GeneID	55247;
SDS-PAGE MW	68kd
Concentration	1.0mg/ml
Formulation	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20°C

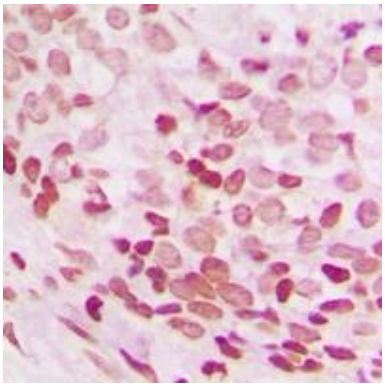
Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of NEIL3 expression in MCF7 (A), H1792
(B), rat thymus (C), mouse testis (D) whole cell lysates.



Immunohistochemical analysis of NEIL3 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Background

DNA glycosylase which prefers single-stranded DNA (ssDNA), or partially ssDNA structures such as bubble and fork structures, to double-stranded DNA (dsDNA). In vitro, displays strong glycosylase activity towards the hydantoin lesions spiroiminodihydantoin (Sp) and guanidinohydantoin (Gh) in both ssDNA and dsDNA; also recognizes FapyA, FapyG, 5-OHU, 5-OHC, 5-OHMH, Tg and 8-oxoA lesions in ssDNA. No activity on 8-oxoG detected. Also shows weak DNA-(apurinic or apyrimidinic site) lyase activity. In vivo, appears to be the primary enzyme involved in removing Sp and Gh from ssDNA in neonatal tissues. Seems to be an important facilitator of cell proliferation in certain populations, for example neural stem/progenitor cells and tumor cells, suggesting a role in replication-associated DNA repair.

Takao M., J. Biol. Chem. 277:42205-42213(2002).
Ota T., Nat. Genet. 36:40-45(2004).
The MGC Project Team, Genome Res. 14:2121-2127(2004).

Note: This product is for in vitro research use only