

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for TA502004BM

XLF (NHEJ1) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI3E6]

Product data:

| Product Type: | Primary Antibodies |
|-------------------------|---|
| Clone Name: | OTI3E6 |
| Applications: | FC, IF, IHC, WB |
| Recommended Dilution: | WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100 |
| Reactivity: | Human |
| Host: | Mouse |
| lsotype: | lgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human NHEJ1 (NP_079058) produced in HEK293T cell. |
| Formulation: | PBS (pH 7.3) containing 1% BSA, 50% glycerol. |
| Concentration: | 0.5 mg/ml |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | HRP |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 33.2 kDa |
| Gene Name: | non-homologous end joining factor 1 |
| Database Link: | <u>NP 079058</u> <u>Entrez Gene 79840 Human</u> <u>Q9H9Q4</u> |
| Background: | Double-strand breaks in DNA result from genotoxic stresses and are among the most damaging of DNA lesions. This gene encodes a DNA repair factor essential for the nonhomologous end-joining pathway, which preferentially mediates repair of double- stranded breaks. Mutations in this gene cause different kinds of severe combined immunodeficiency disorders. [provided by RefSeq] |



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Scheme Stephen Stephen

Synonyms:

XLF

Protein Pathways:

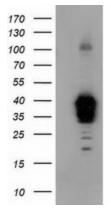
Non-homologous end-joining

Product images:

158-106-79-

48-

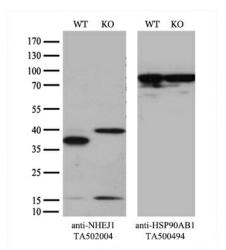
35-



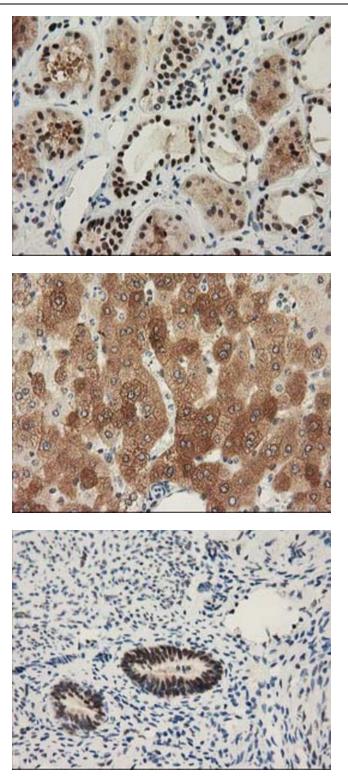
HepG2 HeLa HT29 A549 COS7 Jurkat MDCK PC12 MCF7

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NHEJ1 ([RC203393], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NHEJ1. Positive lysates [LY403031] (100ug) and [LC403031] (20ug) can be purchased separately from OriGene.

Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-NHEJ1 monoclonal antibody.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and NHEJ1-Knockout HeLa cells (KO, Cat#[LC831412]) were separated by SDS-PAGE and immunoblotted with anti-NHEJ1 monoclonal antibody [TA502004] (1:200). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.

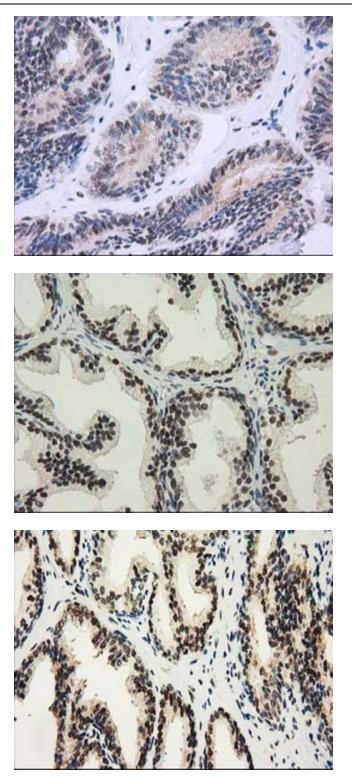
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Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Human liver tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Human endometrium tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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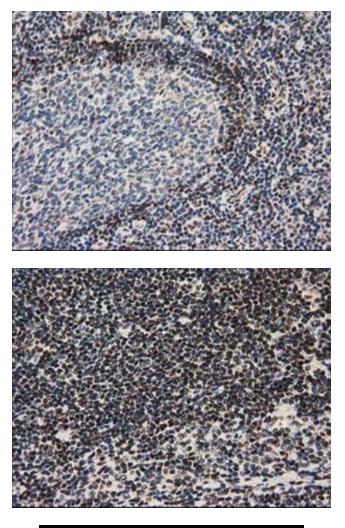


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-NHEJ1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Human prostate tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

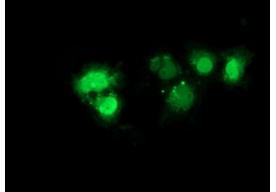
Immunohistochemical staining of paraffinembedded Carcinoma of Human prostate tissue using anti-NHEJ1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

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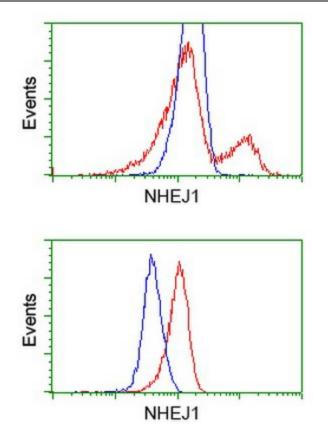
Immunohistochemical staining of paraffinembedded Human lymph node tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-NHEJ1 mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-NHEJ1 mouse monoclonal antibody ([TA502004]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY NHEJ1 ([RC203393]).

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HEK293T cells transfected with either [RC203393] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-NHEJ1 antibody ([TA502004]), and then analyzed by flow cytometry.

Flow cytometric Analysis of Hela cells, using anti-NHEJ1 antibody ([TA502004]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).

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