

## Product datasheet for **TA502002**

### **XLF (NHEJ1) Mouse Monoclonal Antibody [Clone ID: OTI3B5]**

#### **Product data:**

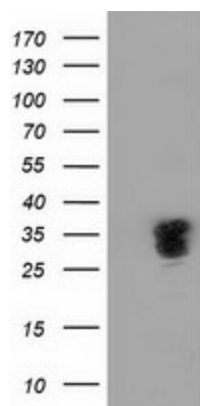
Product Type:	Primary Antibodies
Clone Name:	OTI3B5
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human NHEJ1 (NP_079058) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.71 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
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:	<a href="#">NP_079058</a> <a href="#">Entrez Gene 79840 Human</a> <a href="#">Q9H9Q4</a>
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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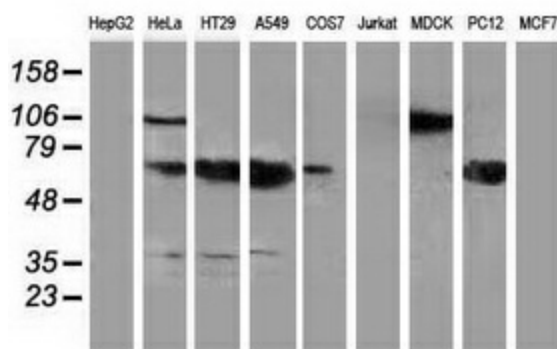
**Synonyms:** XLF

**Protein Pathways:** Non-homologous end-joining

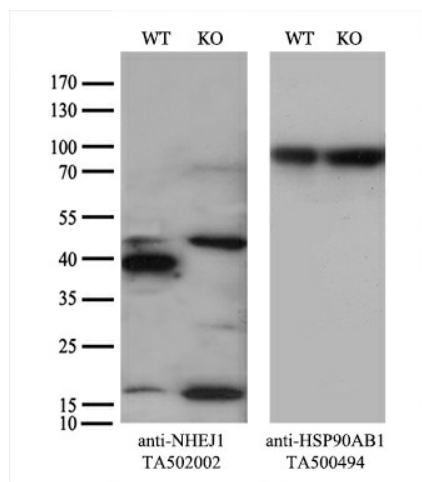
### Product images:



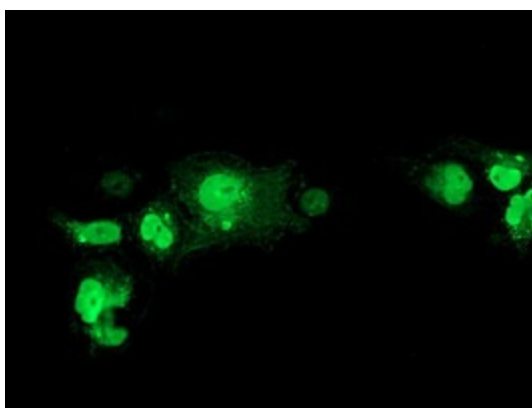
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NHEJ1 ([RC203393], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NHEJ1. Positive lysates [LY403031] (100ug) and [LC403031]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



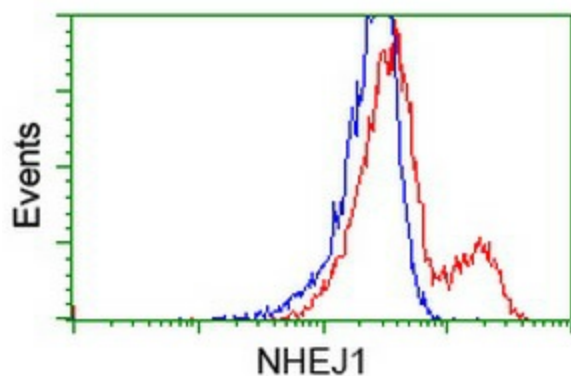
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-NHEJ1 monoclonal antibody.



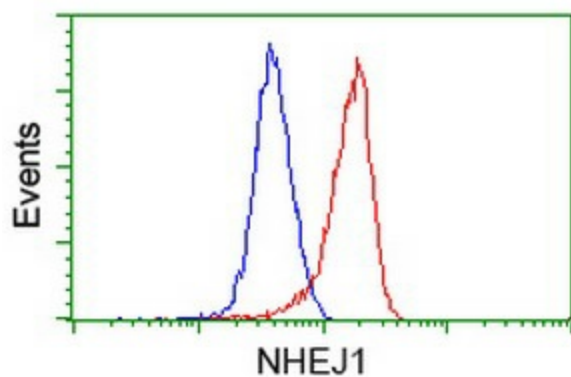
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and NHEJ1-Knockout HeLa cells (KO, Cat# [LC831412]) were separated by SDS-PAGE and immunoblotted with anti-NHEJ1 monoclonal antibody TA502002 (1:100). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



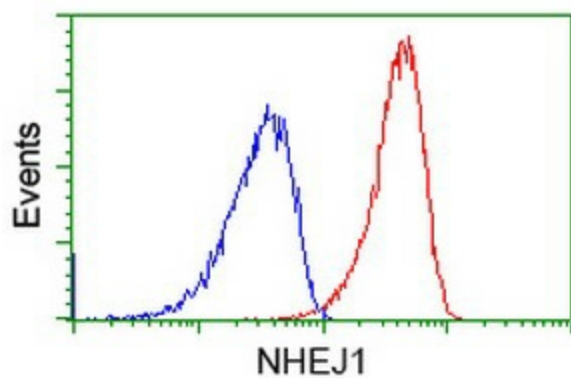
Anti-NHEJ1 mouse monoclonal antibody (TA502002) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY NHEJ1 ([RC203393]).



HEK293T cells transfected with either [RC203393] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-NHEJ1 antibody (TA502002), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-NHEJ1 antibody (TA502002), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-NHEJ1 antibody (TA502002), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).