

Product datasheet for **CF502007**

XLF (NHEJ1) Mouse Monoclonal Antibody [Clone ID: OTI3D6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3D6
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:1000~2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human NHEJ1 (NP_079058) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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:	Homo sapiens non-homologous end joining factor 1 (NHEJ1), transcript variant 1, mRNA.
Database Link:	NP_079058 Entrez Gene 701542 Monkey Entrez Gene 79840 Human Q9H9Q4



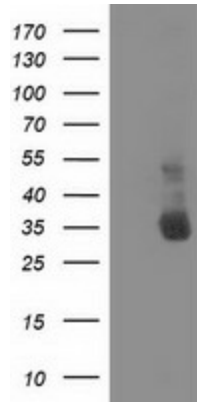
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Background: Double-strand breaks in DNA result from genotoxic stresses and are among the most damaging of DNA lesions. This gene encodes a DNA repair factor essential for the nonhomologous end-joining pathway, which preferentially mediates repair of double-stranded breaks. Mutations in this gene cause different kinds of severe combined immunodeficiency disorders. [provided by RefSeq]

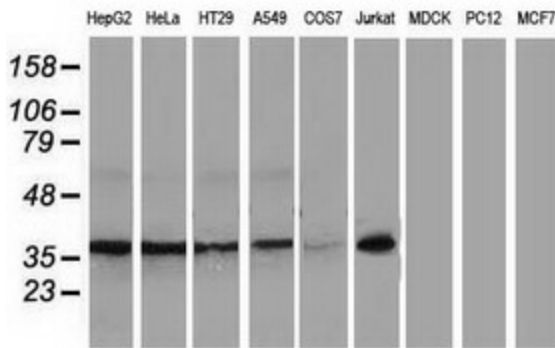
Synonyms: XLF

Protein Pathways: Non-homologous end-joining

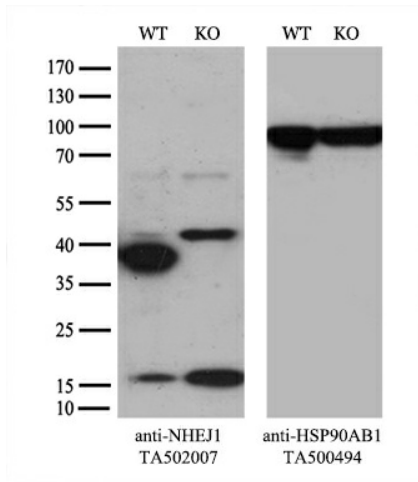
Product images:



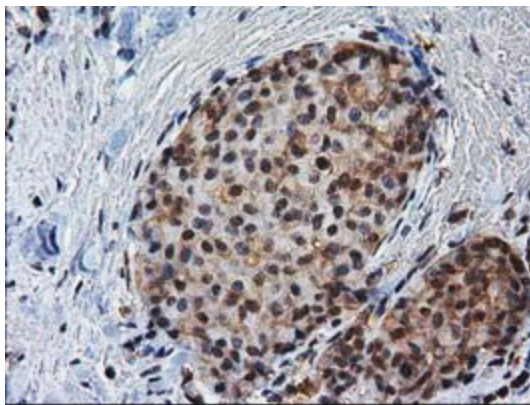
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NHEJ1 (Cat# [RC203393], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NHEJ1 (Cat# [TA502007]). Positive lysates [LY403031] (100ug) and [LC403031] (20ug) can be purchased separately from OriGene.



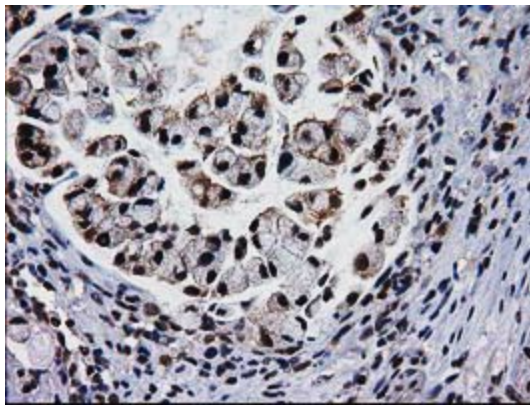
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-NHEJ1 monoclonal antibody.



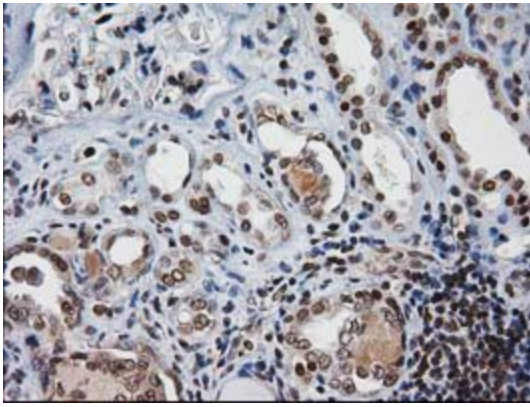
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and NHEJ1-Knockout HeLa cells (KO, Cat# [LC831412]) were separated by SDS-PAGE and immunoblotted with anti-NHEJ1 monoclonal antibody [TA502007] (1:200). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



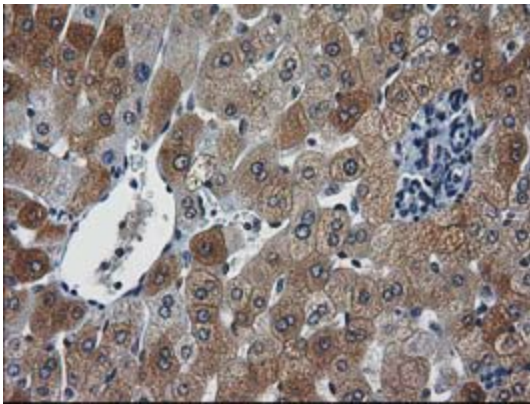
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



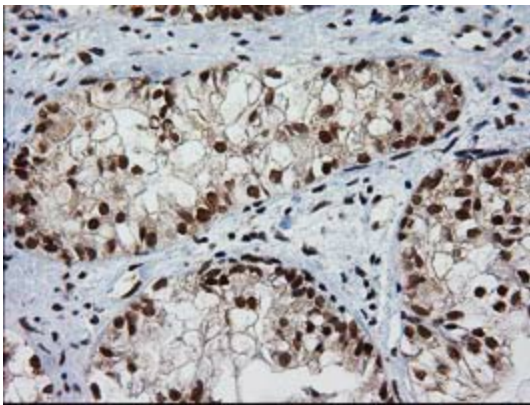
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



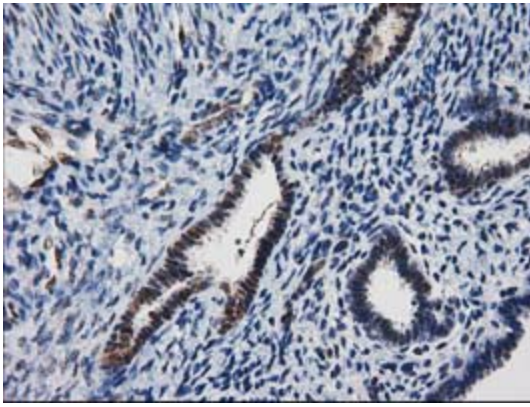
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



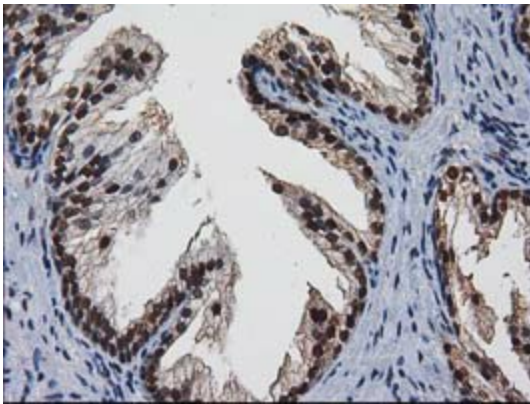
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



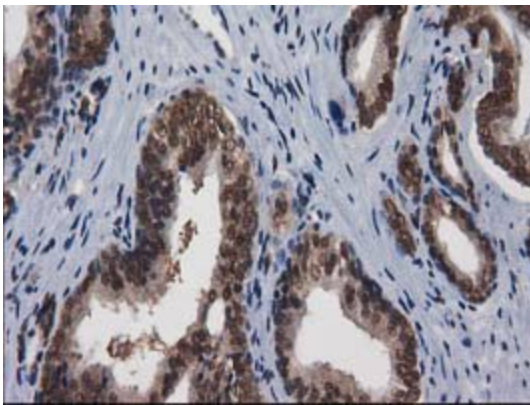
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



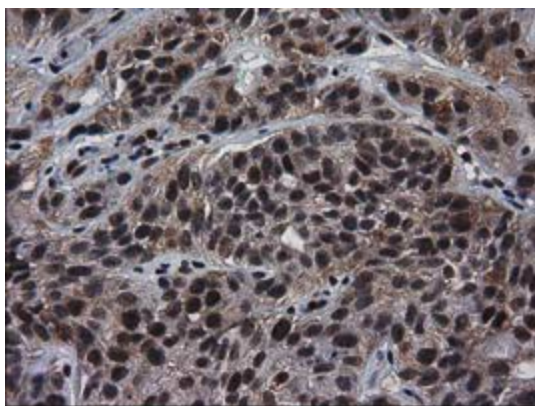
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



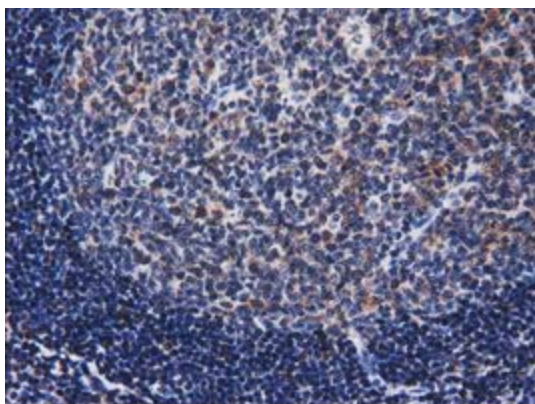
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



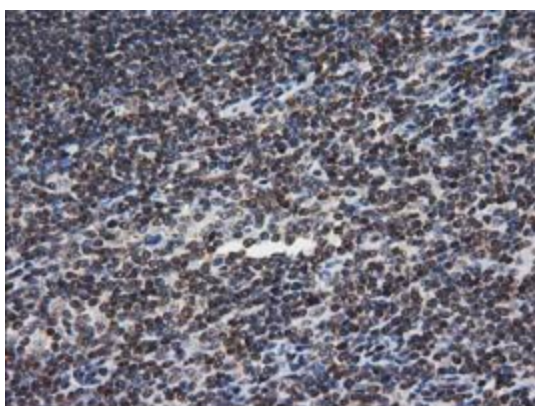
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



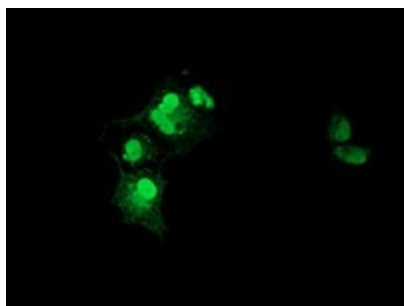
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



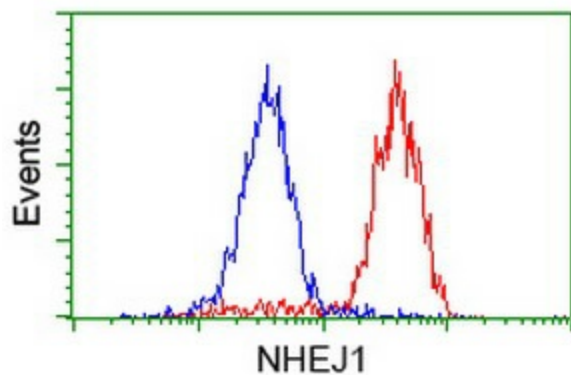
Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-NHEJ1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502007])



Anti-NHEJ1 mouse monoclonal antibody ([TA502007]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY NHEJ1 ([RC203393]).



Flow cytometric Analysis of HeLa cells, using anti-NHEJ1 antibody ([TA502007]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).