

Datasheet for ABIN7599198
anti-NHEJ1 antibody (AA 1-273)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	NHEJ1
Binding Specificity:	AA 1-273
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NHEJ1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-XLF/NHEJ1 Picoband® Antibody
Immunogen:	E.coli-derived human XLF/NHEJ1 recombinant protein (Position: M1-E273).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-XLF/NHEJ1 Picoband® Antibody (ABIN7599198). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	NHEJ1
Alternative Name:	NHEJ1 (NHEJ1 Products)
Background:	Synonyms: Non-homologous end-joining factor 1, Protein cernunnos, XRCC4-like factor, NHEJ1, XLF Tissue Specificity: Widely expressed. Background: Non-homologous end-joining factor 1 (NHEJ1), also known as Cernunnos or XRCC4-like factor (XLF), is a protein that in humans is encoded by the NHEJ1 gene. It is mapped to 2q35. 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.
Molecular Weight:	38 kDa
Gene ID:	79840
UniProt:	Q9H9Q4
Pathways:	DNA Damage Repair

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human, Mouse ELISA, 0.1-0.5 µg/mL, - 1. Callebaut, I., Malivert, L., Fischer, A., Mornon, J.-P., Revy, P., de Villartay, J.-P. Cernunnos interacts with the XRCC4-DNA-ligase IV complex and is homologous to the yeast nonhomologous end-joining factor Nej1. J. Biol. Chem. 281: 13857-13860, 2006. 2. Cantagrel, V., Lossi, A.-M., Lisgo, S., Missirian, C., Borges, A., Philip, N., Fernandez, C., Cardoso, C., Figarella-Branger, D., Moncla, A., Lindsay, S., Dobyns, W. B., Villard, L. Truncation of NHEJ1 in a patient with polymicrogyria. Hum. Mutat. 28: 356-364, 2007. 3. Dai, Y., Kysela, B., Hanakahi, L. A., Manolis, K., Riballo, E., Stumm, M., Harville, T. O., West, S. C., Oettinger, M. A., Jeggo, P. A. Nonhomologous end joining and V(D)J recombination require an additional factor. Proc. Nat. Acad. Sci. 100: 2462-2467, 2003.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.