XLF Mouse mAb

Catalog No	YP-mAb-18694
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	NHEJ1 XLF
Immunogen	Synthesized peptide derived from human XLF
Specificity	This antibody detects endogenous levels of XLF at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Cernunnos;FLJ1261;NHEJ 1;Nhej1;S. cerevisiae;homolog of;NHEJ1_HUMAN; Non homologous end joining factor 1;Non-homologous end-joining factor 1; Nonhomologous end joining factor 1;OTTHUMP164168;OTTHUMP26275; OTTHUMP26279;Protein cernunnos;XLF;XRCC4 like factor;XRCC4-like factor; NHEJ1 XLF;Non-homologous end-joining factor 1 (Protein cernunnos) (XRCC4-like factor)
Observed Band	33kD
Calculated Molecular Weight	33kDa; 33kD(Calculated).
Cell Pathway	Nucleus . Chromosome . Localizes to site of double-strand breaks; recruitment is dependent on XRCC5-XRCC6 (Ku) heterodimer. .
Tissue Specificity	Ubiquitously expressed.
Function	DNA repair protein involved in DNA non-homologous end joining (NHEJ); required for double-strand break (DSB) repair and V(D)J recombination . Plays a key role in NHEJ by promoting the ligation of various mismatched and non-cohesive ends . Together with PAXX, collaborates with DNA polymerase lambda (POLL) to promote joining of non-cohesive DNA ends . May act in concert with XRCC5-XRCC6 (Ku) to stimulate XRCC4-mediated joining of blunt ends and several types of mismatched ends that are non-complementary or partially

	complementary . Associates with XRCC4 to form alternating helical filaments that bridge DNA and act like a bandage, holding together the broken DNA until it is repaired . The XRCC4-NHEJ1/XLF subcomplex binds to the DNA fragments of a DSB in a highly diffusive manner and robustly bridges two independent DNA molecules, holding the broken DNA fragments in close proximity to one other . The mobility of the bridges ensures that the ends remain accessible for further processing by other repair factors . Binds DNA in a length-dependent manner .
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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