

Rabbit anti-Human NFKBIL2 Polyclonal Antibody | anti-TONSL antibody

NFKBIL2 Antibody (N-term)

CATALOG # AAA287365	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

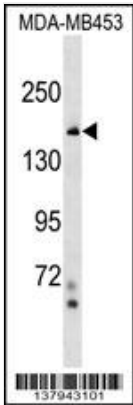
NFKBIL2; Polyclonal Antibody; NFKBIL2 Antibody (N-term); Tonsoku-like protein; Inhibitor of kappa B-related protein; I-kappa-B-related protein; IkappaBR; NF-kappa-B inhibitor-like protein 2; Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 2; TONSL; IKBR; anti-TONSL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This NFKBIL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 38-65 amino acids from the N-terminal region of human NFKBIL2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	38-65
Sequence Length	1,378
Applicable Applications for anti-TONSL antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Function	Component of the MMS22L-TONSL complex, a complex that promotes homologous recombination-mediated repair of double-strand breaks (DSBs) at stalled or collapsed replication forks (PubMed:21055983, PubMed:21055984, PubMed:21055985, PubMed:21113133, PubMed:26527279, PubMed:27797818, PubMed:29478807, PubMed:27338793, PubMed:30773278). The MMS22L-TONSL complex is required to maintain genome integrity during DNA replication (PubMed:21055983, PubMed:21055984, PubMed:21055985). It mediates the assembly of RAD51 filaments on single-stranded DNA (ssDNA): the MMS22L-TONSL complex is recruited to DSBs following histone replacement by histone chaperones and eviction of the replication protein A complex (RPA/RP-A) from DSBs (PubMed:21055983, PubMed:21055984, PubMed:21055985, PubMed:27797818, PubMed:29478807). Following recruitment to DSBs, the TONSL-MMS22L complex promotes recruitment of RAD51 filaments and subsequent homologous recombination (PubMed:27797818, PubMed:29478807). Within the complex, TONSL acts as a histone reader, which recognizes and binds newly synthesized histones following their replacement by histone chaperones (PubMed:29478807, PubMed:27338793). Specifically binds histone H4 lacking methylation at 'Lys-20' (H4K20me0) and histone H3.1 (PubMed:27338793).
Cellular Location	Nucleus. Chromosome. Cytoplasm Note=Mainly nuclear (PubMed:21055983, PubMed:21055984). Localizes to DNA damage sites, accumulates at stressed replication forks (PubMed:21055983, PubMed:21055984, PubMed:26527279, PubMed:27338793) Recruited to stalled or collapsed replication forks following histone replacement by histone chaperones ASF1A and the CAF-1 complex: TONSL acts as a histone reader that recognizes and binds newly synthesized histones (PubMed:29478807).
Tissue Location	Expressed in heart, skeletal muscle and tracheal epithelial cells.

Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
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IMAGES



WB (Western Blot)
NFKBIL2 Antibody (N-term) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the NFKBIL2 antibody detected the NFKBIL2 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-TONSL antibody	The protein encoded by this gene is thought to be a negative regulator of NF-kappa-B mediated transcription. The encoded protein may bind NF-kappa-B complexes and trap them in the cytoplasm, preventing them from entering the nucleus and interacting with the DNA. Phosphorylation of this protein targets it for degradation by the ubiquitination pathway, which frees the NF-kappa-B complexes to enter the nucleus.
Product Categories/Family for anti-TONSL antibody	Signal Transduction
References	Wang, Y., et al. J. Hum. Genet. 55(8):490-494(2010) Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) : Norman, D.A., et al. Ann. Hum. Genet. 64 (PT 1), 15-23 (2000) : Ray, P., et al. J. Biol. Chem. 270(18):10680-10685(1995)

NCBI AND UNIPROT INFORMATION

NCBI GI #	187608777
NCBI GeneID	4796
NCBI Accession #	NP_038460.4
NCBI GenBank Nucleotide #	NM_013432.4
UniProt Accession #	Q96HA7; Q13006; Q9UGJ2; B5MDP0; C9JKB1; C9JNV8
Molecular Weight	150929
NCBI Official Full Name	tonsoku-like protein
NCBI Official Synonym Full Names	tonsoku-like, DNA repair protein
NCBI Official Symbol	TONSL
NCBI Official Synonym Symbols	IKBR; NFKBIL2
NCBI Protein Information	tonsoku-like protein

UniProt Protein Name	Tonsoku-like protein
UniProt Gene Name	TONSL
UniProt Synonym Gene Names	IKBR; NFKBIL2; I-kappa-B-related protein; IkappaBR
UniProt Entry Name	TONSL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/nfkbil2-antibody-western-blot-elisa/287365>