

NFKBIL2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57443

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q96HA7
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	150929

Additional Information

Gene ID	4796
Other Names	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, NFKBIL2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TONSL {ECO:0000303 PubMed:21055983, ECO:0000312 HGNC:HGNC:7801}
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: 27338793 , PubMed: 27797818 , PubMed: 29478807 , 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:[27338793](#), PubMed:[29478807](#)). 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.

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