

**Anti-KIN Antibody**  
**Catalog # ABO11548****Specification**

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**Anti-KIN Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O60870</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for DNA/RNA-binding protein KIN17(KIN) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-KIN Antibody - Additional Information**

**Gene ID** 22944

**Other Names**

DNA/RNA-binding protein KIN17, Binding to curved DNA, KIN, antigenic determinant of recA protein homolog, KIN ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=6327](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=6327)), BTCD, KIN17

**Calculated MW**

45374 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Nucleus . Cytoplasm . During S phase, strongly associated with the nuclear matrix, and to chromosomal DNA in the presence of DNA damage. Also shows cytoplasmic localization in elongated spermatids. .

**Tissue Specificity**

Ubiquitously expressed in all tissues examined, with highest levels in skeletal muscle, heart and testis. Differentially expressed in non-tumorigenic and tumorigenic cell lines. Highly expressed in proliferating epithelial keratinocyte cells in vitro (at protein level). .

**Protein Name**

DNA/RNA-binding protein KIN17

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human KIN(48-64aa ESHQRQLLLASENPQQF), identical to the related mouse and rat sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the KIN17 family.

**Anti-KIN Antibody - Protein Information**

**Name** KIN ([HGNC:6327](#))

**Synonyms** BTCD, KIN17

**Function**

Involved in DNA replication and the cellular response to DNA damage. May participate in DNA replication factories and create a bridge between DNA replication and repair mediated by high molecular weight complexes. May play a role in illegitimate recombination and regulation of gene expression. May participate in mRNA processing. Binds, in vitro, to double-stranded DNA. Also shown to bind preferentially to curved DNA in vitro and in vivo (By similarity). Binds via its C-terminal domain to RNA in vitro.

**Cellular Location**

Nucleus. Cytoplasm. Note=During S phase, strongly associated with the nuclear matrix, and to chromosomal DNA in the presence of DNA damage. Also shows cytoplasmic localization in elongated spermatids {ECO:0000250|UniProtKB:Q8K339, ECO:0000269|PubMed:11880372, ECO:0000269|PubMed:12359749, ECO:0000269|PubMed:12754299, ECO:0000269|PubMed:12853634, ECO:0000269|PubMed:15831485}

**Tissue Location**

Ubiquitously expressed in all tissues examined, with highest levels in skeletal muscle, heart and testis Differentially expressed in non-tumorigenic and tumorigenic cell lines Highly expressed in proliferating epithelial keratinocyte cells in vitro (at protein level).

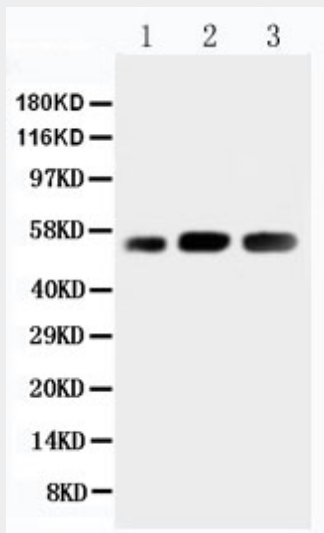
**Anti-KIN Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Anti-KIN Antibody - Images



Anti-KIN antibody, ABO11548, Western blotting  
Lane 1: Rat Skeletal Muscle Tissue Lysate  
Lane 2: Human Placenta Tissue Lysate  
Lane 3: Rat Testis Tissue Lysate

#### Anti-KIN Antibody - Background

DNA/RNA-binding protein KIN17, also known as BTCD or KIN17 is a protein that in humans is encoded by the KIN gene. This gene is mapped to 10p14. The protein encoded by this gene is a nuclear protein that forms intranuclear foci during proliferation and is redistributed in the nucleoplasm during the cell cycle. Short-wave ultraviolet light provokes the relocalization of the protein, suggesting its participation in the cellular response to DNA damage. Originally selected based on protein-binding with RecA antibodies, the mouse protein presents a limited similarity with a functional domain of the bacterial RecA protein, a characteristic shared by this human ortholog. Alternative splicing of this gene results in multiple transcript variants.