

NIPBL (aa889-902) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3215a**Specification**

NIPBL (aa889-902) Antibody (internal region) - Product Information

Application	IHC, E
Primary Accession	Q6KC79
Other Accession	NP_597677.2 , NP_056199.2 , 25836 , 71175 (mouse), 294787 (rat)
Reactivity	Mouse
Predicted	Human, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	316051

NIPBL (aa889-902) Antibody (internal region) - Additional Information**Gene ID** 25836**Other Names**

Nipped-B-like protein, Delangin, SCC2 homolog, NIPBL, IDN3

Dilution

IHC~~1:100~500

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

NIPBL (aa889-902) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

NIPBL (aa889-902) Antibody (internal region) - Protein Information**Name** NIPBL**Synonyms** IDN3, SCC2 {ECO:0000303|PubMed:22628566}**Function**

Plays an important role in the loading of the cohesin complex on to DNA. Forms a heterodimeric complex (also known as cohesin loading complex) with MAU2/SCC4 which mediates the loading of the cohesin complex onto chromatin (PubMed:22628566, PubMed:28914604). Plays a role in cohesin loading at sites of DNA damage. Its recruitment to double-strand breaks (DSBs) sites occurs in a CBX3-, RNF8- and RNF168- dependent manner whereas its recruitment to UV irradiation-induced DNA damage sites occurs in a ATM-, ATR-, RNF8- and RNF168-dependent manner (PubMed:28167679). Along with ZNF609, promotes cortical neuron migration during brain development by regulating the transcription of crucial genes in this process. Preferentially binds promoters containing paused RNA polymerase II. Up-regulates the expression of SEMA3A, NRP1, PLXND1 and GABBR2 genes, among others (By similarity).

Cellular Location

Nucleus. Chromosome {ECO:0000250|UniProtKB:Q6KCD5}

Tissue Location

Widely expressed. Highly expressed in heart, skeletal muscle, fetal and adult liver, fetal and adult kidney. Expressed at intermediate level in thymus, placenta, peripheral leukocyte and small intestine. Weakly or not expressed in brain, colon, spleen and lung.

NIPBL (aa889-902) Antibody (internal region) - 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](#)

NIPBL (aa889-902) Antibody (internal region) - Images

NIPBL (aa889-902) Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_597677.2; NP_056199.2).

NIPBL (aa889-902) Antibody (internal region) - References

Transcriptional dysregulation in NIPBL and cohesin mutant human cells. Liu J, Zhang Z, Bando M, Itoh T, Deardorff MA, Clark D, Kaur M, Tandy S, Kondoh T, Rappaport E, Spinner NB, Vega H, Jackson LG, Shirahige K, Krantz ID, PLoS biology 2009 May 7 (5): e1000119. PMID: 19468298