

Anti-IDN3 / NIPBL Antibody (clone KT55)

Rat Anti Mouse Monoclonal Antibody

Catalog # ALS18142

Product Information

Application	WB, IHC-P, ICC
Primary Accession	Q6KC79
Predicted	Human, Mouse
Host	Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Names	KT55
Calculated MW	316051
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	25836
Alias Symbol	NIPBL
Other Names	NIPBL, CDLS1, CDLS, Delangin, IDN3, Nipped-B homolog (Drosophila), IDN3-B, Scc2, SCC2 homolog, Nipped-B-like protein
Reconstitution & Storage	Protein A purified
Precautions	Anti-IDN3 / NIPBL Antibody (clone KT55) is for research use only and not for use in diagnostic or therapeutic procedures.

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 intermediates level in thymus, placenta, peripheral leukocyte and small intestine. Weakly or not expressed in brain, colon, spleen and lung.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.