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Anti-IDN3 / NIPBL Antibody (clone KT55)

Rat Anti Mouse Monoclonal Antibody
Catalog # ALS18142

Specification

Anti-IDN3 / NIPBL Antibody (clone KT55) - Product Information

Application	**WB, IHC-P, ICC**
Primary Accession	Q6KC79
Predicted	**Human, Mouse**
Host	**Rat**
Clonality	**Monoclonal**
Isotype	**IgG2b**
Calculated MW	**316051**

Anti-IDN3 / NIPBL Antibody (clone KT55) - 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.

Anti-IDN3 / NIPBL Antibody (clone KT55) - 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.

Anti-IDN3 / NIPBL Antibody (clone KT55) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-IDN3 / NIPBL Antibody (clone KT55) - Images