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Polyclonal Antibody to Transition Protein 2 (TNP2)

Transition Protein 2
Catalog # AP74767

Product Information

Application	WB
Primary Accession	P11378
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	13117

Additional Information

Gene ID	21959
Other Names	TP2; During Histone To Protamine Replacement; Nuclear transition protein 2
Target/Specificity	Mus musculus (Mouse)
Dilution	WB~~Western blotting: 0.5-2 □g/mL; Immunohistochemistry: 5-20 □g/mL; Immunocytochemistry: 5-20 □g/mL; Optimal working dilutions must be determined by end user.
Format	PBS, pH7.4, containing 0.02% NaN3, 50% glycerol.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	Tnp2 {ECO:0000312|MGI:MGI:98785}
Function	Plays a key role in the replacement of histones to protamine in the elongating spermatids of mammals (PubMed:15083521, PubMed:15163613, PubMed:15189834, PubMed:28366643). In condensing spermatids, loaded onto the nucleosomes, where it promotes the recruitment and processing of protamines, which are responsible for histone eviction (PubMed:28366643). The histone H2AB1-H2BC1/TH2B dimer is required for loading of TNP2 onto chromatin (PubMed:28366643).
Cellular Location	Nucleus. Chromosome. Note=Loaded onto the nucleosomes of condensing spermatids (PubMed:28366643). Inclusion of the H2AB1- H2BC1/TH2B dimer into chromatin opens the nucleosomes, releasing the nucleosomal DNA ends and allowing the invasion of nucleosomes by transition protein TNP2 (PubMed:28366643). Nuclear import is mediated by IPO4. Nucleolar localization requires the protein to be phosphorylated (By similarity).

{ECO:0000250|UniProtKB:P11101, ECO:0000269|PubMed:28366643}

Images

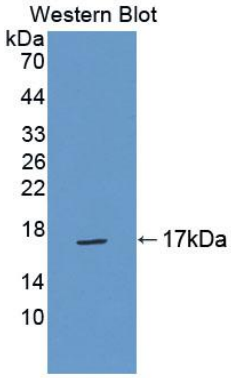


Figure. Western Blot; Sample: Recombinant TNP2, Mouse.

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