

THRAP3 Antibody / Thyroid hormone receptor-associated protein 3 (FY13145)

Catalog No.	Formulation	Size
FY13145	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

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Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q9Y2W1
Applications	Western Blot : 0.25-0.5ug/ml Immunohistochemistry : 2-5ug/ml Immunocytochemistry/Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This THRAP3 antibody is available for research use only.

Description

THRAP3 antibody detects Thyroid hormone receptor-associated protein 3, an RNA-binding and transcriptional coactivator involved in mRNA splicing, export, and DNA damage response. The UniProt recommended name is Thyroid hormone receptor-associated protein 3 (THRAP3). This multifunctional nuclear protein integrates transcriptional and post-transcriptional regulation, linking chromatin signaling to RNA metabolism.

Functionally, THRAP3 antibody identifies a 955-amino-acid protein that associates with transcriptional coactivator complexes, including TRAP/SMCC/Med complex components, and with splicing regulators. THRAP3 modulates alternative splicing of pre-mRNAs and facilitates the export of mature transcripts to the cytoplasm. It also interacts with BRCA1 and phosphorylated proteins in response to DNA damage, influencing genome stability.

The THRAP3 gene is located on chromosome 1p36.11 and is ubiquitously expressed in proliferating tissues. Through its binding to RNA and chromatin-associated factors, THRAP3 functions as a bridge between transcriptional activation and

mRNA maturation, coordinating gene expression output.

Pathologically, THRAP3 dysfunction has been linked to cancer and metabolic diseases. Aberrant splicing or mutations affecting THRAP3 lead to impaired mRNA processing and genomic instability. Research using THRAP3 antibody supports studies in transcriptional control, splicing regulation, and DNA repair signaling.

THRAP3 antibody is validated for western blotting, immunoprecipitation, and immunofluorescence to detect RNA-binding coactivator proteins. NSJ Bioreagents provides THRAP3 antibody reagents optimized for transcriptional and post-transcriptional research applications.

Structurally, Thyroid hormone receptor-associated protein 3 contains low-complexity domains and serine/arginine-rich regions that mediate protein-RNA and protein-protein interactions. This antibody enables exploration of THRAP3's molecular role in coordinating transcriptional activation with RNA processing.

Application Notes

Optimal dilution of the THRAP3 antibody should be determined by the researcher.

Immunogen

E.coli-derived human THRAP3 recombinant protein (Position: A57-K768) was used as the immunogen for the THRAP3 antibody.

Storage

After reconstitution, the THRAP3 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.