

ZNF451 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9637a

Product Information

Application	WB, E
Primary Accession	Q9Y4E5
Other Accession	Q8C0P7
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24130
Calculated MW	121484
Antigen Region	81-110

Additional Information

Gene ID	26036
Other Names	Zinc finger protein 451, Coactivator for steroid receptors, ZNF451, COASTER, KIAA0576, KIAA1702
Target/Specificity	This ZNF451 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 81-110 amino acids from the N-terminal region of human ZNF451.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ZNF451 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZNF451
Synonyms	COASTER {ECO:0000303 Ref.1}, KIAA0576, K

Function	E3 SUMO-protein ligase; has a preference for SUMO2 and SUMO3 and facilitates UBE2I/UBC9-mediated sumoylation of target proteins (PubMed: 26524493 , PubMed: 26524494). Plays a role in protein SUMO2 modification in response to stress caused by DNA damage and by proteasome inhibitors (in vitro). Required for MCM4 sumoylation (By similarity). Has no activity with SUMO1 (PubMed: 26524493). Preferentially transfers an additional SUMO2 chain onto the SUMO2 consensus site 'Lys-11' (PubMed: 26524493). Negatively regulates transcriptional activation mediated by the SMAD4 complex in response to TGF-beta signaling. Inhibits EP300-mediated acetylation of histone H3 at 'Lys-9' (PubMed: 24324267). Plays a role in regulating the transcription of AR targets (PubMed: 18656483).
Cellular Location	Nucleus. Nucleus, PML body. Nucleus, nucleoplasm. Note=Colocalizes with UBE2I/UBC9, SUMO1 and SUMO2 in nuclear granules; this probably requires sumoylation. Desumoylation leads to diffuse nucleoplasmic location.

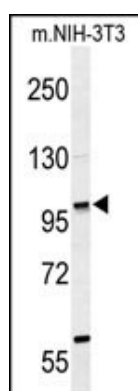
Background

ZNF451 may be involved in transcriptional regulation. Coactivator for steroid receptors

References

Karvonen, U., et al. J. Mol. Biol. 382(3):585-600(2008)
 Colland, F., et al. Genome Res. 14(7):1324-1332(2004)

Images



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