

Anti-WDR4 Rabbit Monoclonal Antibody
Catalog # ABO16008**Specification**

Anti-WDR4 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC, FC
Primary Accession	P57081
Host	Rabbit
Isotype	IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

Description

Anti-WDR4 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications.
This antibody reacts with Human.

Anti-WDR4 Rabbit Monoclonal Antibody - Additional Information

Gene ID 10785

Other Names

tRNA (guanine-N(7)-)-methyltransferase non-catalytic subunit WDR4
{ECO:0000255|HAMAP-Rule:MF_03056}, Protein Wuho homolog, hWH, WD repeat-containing
protein 4 {ECO:0000255|HAMAP-Rule:MF_03056}, WDR4

Calculated MW

45 kDa KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
FC 1:50

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50%
glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human WDR4

Purification

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term
storage and frequent use, store at 4°C for
up to one month. Avoid repeated
freeze-thaw cycles.**

Anti-WDR4 Rabbit Monoclonal Antibody - Protein Information

Name WDR4**Function**

Non-catalytic component of the METTL1-WDR4 methyltransferase complex required for the formation of N(7)-methylguanine in a subset of RNA species, such as tRNAs, mRNAs and microRNAs (miRNAs) (PubMed:12403464, PubMed:31031083, PubMed:31031084, PubMed:36599982, PubMed:36599985, PubMed:37369656). In the METTL1-WDR4 methyltransferase complex, WDR4 acts as a scaffold for tRNA-binding (PubMed:36599982, PubMed:36599985, PubMed:37369656). Required for the formation of N(7)- methylguanine at position 46 (m7G46) in a large subset of tRNAs that contain the 5'-RAGGU-3' motif within the variable loop (PubMed:12403464, PubMed:34352206, PubMed:34352207, PubMed:36599982, PubMed:36599985, PubMed:37369656). M7G46 interacts with C13-G22 in the D-loop to stabilize tRNA tertiary structure and protect tRNAs from decay (PubMed:36599982, PubMed:36599985). Also required for the formation of N(7)-methylguanine at internal sites in a subset of mRNAs (PubMed:31031084, PubMed:37379838). Also required for methylation of a specific subset of miRNAs, such as let-7 (PubMed:31031083). Independently of METTL1, also plays a role in genome stability: localizes at the DNA replication site and regulates endonucleolytic activities of FEN1 (PubMed:26751069).

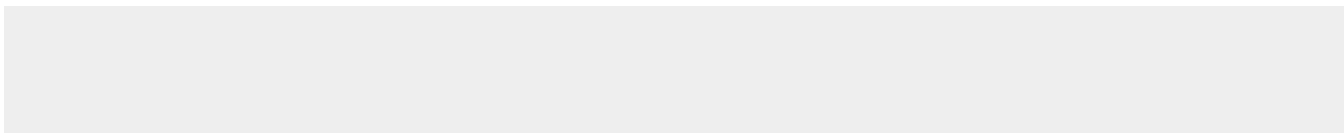
Cellular Location

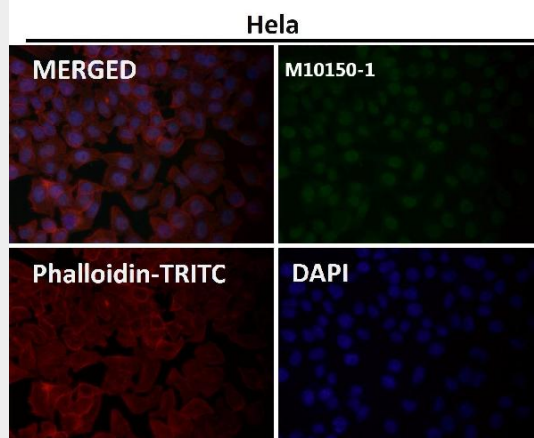
Nucleus. Chromosome Note=Localizes at the site of nascent DNA synthesis

Anti-WDR4 Rabbit Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-WDR4 Rabbit Monoclonal Antibody - Images



Immunofluorescent analysis using the Antibody at 1:50 dilution.