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WDR26 Rabbit pAb

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Catalog # AP52321

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9H7D7
Reactivity	Rat, Human, Mouse
Predicted	Dog, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72124
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human WDR26
Epitope Specificity	101-200/514
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. Two transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq].

Additional Information

Gene ID	80232
Other Names	WD repeat-containing protein 26, CUL4- and DDB1-associated WDR protein 2, Myocardial ischemic preconditioning up-regulated protein 2, WDR26, CDW2, MIP2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-Cyt=1 □g/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	WDR26
Synonyms	CDW2, MIP2
Function	G-beta-like protein involved in cell signal transduction (PubMed: 15378603, PubMed:19446606, PubMed:22065575, PubMed:23625927, PubMed:26895380, PubMed:27098453). Acts as a negative regulator in MAPK signaling pathway (PubMed:15378603). Functions as a scaffolding protein to promote G beta:gamma-mediated PLCB2 plasma membrane translocation and subsequent activation in leukocytes (PubMed:22065575, PubMed:23625927). Core component of the CTLH E3 ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1 (PubMed:29911972). Acts as a negative regulator of the canonical Wnt signaling pathway through preventing ubiquitination of beta-catenin CTNNB1 by the beta-catenin destruction complex, thus negatively regulating CTNNB1 degradation (PubMed:27098453). Serves as a scaffold to coordinate PI3K/AKT pathway- driven cell growth and migration (PubMed:26895380). Protects cells from oxidative stress-induced apoptosis via the down-regulation of AP-1 transcriptional activity as well as by inhibiting cytochrome c release from mitochondria (PubMed:19446606). Also protects cells by promoting hypoxia-mediated autophagy and mitophagy (By similarity).
Cellular Location	Cytoplasm. Nucleus. Mitochondrion {ECO:0000250|UniProtKB:F1LTR1}
Tissue Location	Broadly expressed, with highest levels in heart and skeletal muscle.

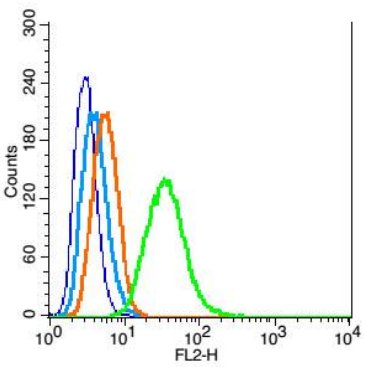
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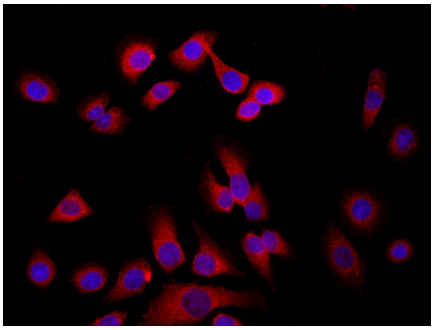
References

Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
Gregory S.G.,et al.Nature 441:315-321(2006).
Yuan C.,et al.Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.
Zhu Y.,et al.J. Cell. Biochem. 93:579-587(2004).
Zhang C.,et al.Submitted (FEB-1999) to the EMBL/GenBank/DDBJ databases.

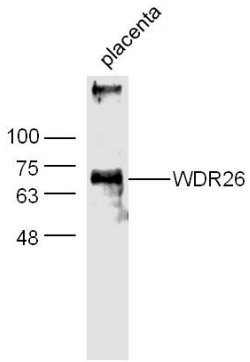
Images



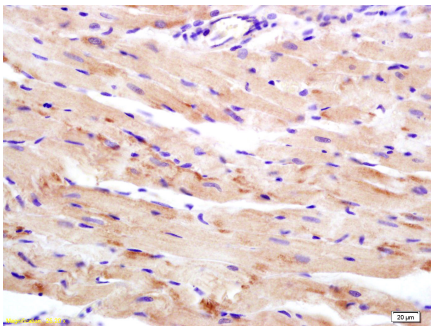
Blank control: RSC96(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice.
Isotype Control Antibody: Rabbit IgG(orange) ;
Secondary Antibody: Goat anti-rabbit IgG-PE(white blue),
Dilution: 1:200 in 1 X PBS containing 0.5% BSA ;
Primary Antibody Dilution: 1 µg in 100 µL1X PBS containing 0.5% BSA(green).



Tissue/cell: MCF7; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (WDR26) Polyclonal Antibody, Unconjugated (AP52321) 1:200, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody (AP52321-FITC) at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Sample:
Placenta (Mouse) Lysate at 40 ug
Primary: Anti-WDR26 (AP52321) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 72 kD
Observed band size: 70 kD



Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-WDR26 Polyclonal Antibody, Unconjugated(AP52321) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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