10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-WD repeat domain 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1471

Specification

KD-Validated Anti-WD repeat domain 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	O75083
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 66 kDa, observed, 75 kDa KDa**
Gene Name	**WDR1**
Aliases	**WDR1; WD Repeat Domain 1; AIP1; Actin-Interacting Protein 1; WD Repeat-Containing Protein 1; NORI-1; Epididymis Secretory Protein Li 52; HEL-S-52; PFITS**
Immunogen	**A synthesized peptide derived from human WDR1**

KD-Validated Anti-WD repeat domain 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**9948**

Other Names
WD repeat-containing protein 1, Actin-interacting protein 1, AIP1, NORI-1, WDR1

KD-Validated Anti-WD repeat domain 1 Rabbit Monoclonal Antibody - Protein Information

Name WDR1

Function
Induces disassembly of actin filaments in conjunction with ADF/cofilin family proteins (PubMed:15629458, PubMed:27557945, PubMed:29751004). Enhances cofilin-mediated actin severing (By similarity). Involved in cytokinesis. Involved in chemotactic cell migration by restricting lamellipodial membrane protrusions (PubMed:18494608). Involved in myocardium sarcomere organization. Required for cardiomyocyte growth and maintenance (By similarity). Involved in megakaryocyte maturation and platelet shedding. Required for the establishment of planar cell polarity (PCP) during follicular epithelium development and for cell shape changes during PCP; the function seems to implicate cooperation with CFL1 and/or DSTN/ADF. Involved in the generation/maintenance of cortical tension (By similarity). Involved in assembly and maintenance of epithelial apical cell junctions and plays a role in the organization of

the perijunctional actomyosin belt (PubMed:25792565).

Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q5RKI0}. Cell projection, podosome. Cell junction

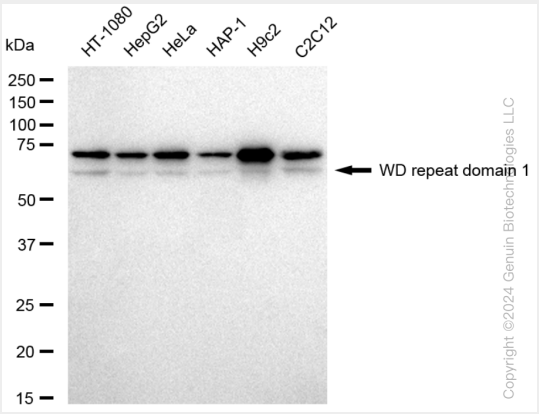
Tissue Location
Expressed in peripheral blood mononuclear cells (at protein level).

KD-Validated Anti-WD repeat domain 1 Rabbit Monoclonal Antibody - Protocols

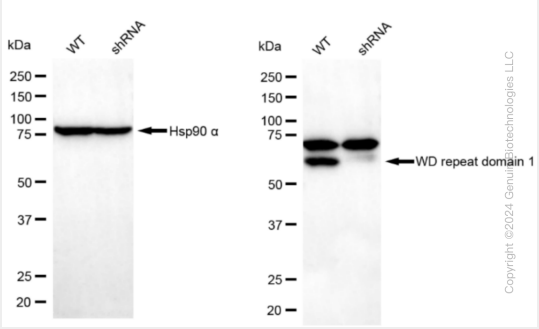
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-WD repeat domain 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-WD repeat domain 1 antibody (Cat#AGI1471). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-WD repeat domain 1 antibody (Cat#AGI1471, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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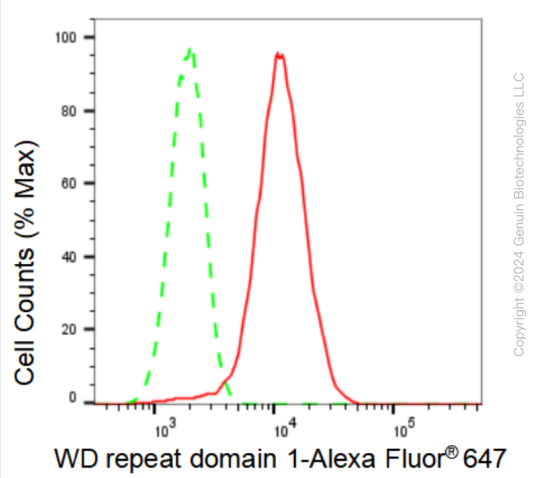
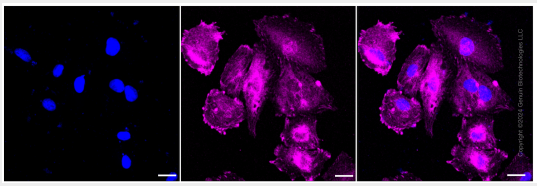
Western blotting analysis using anti-WD repeat domain 1 antibody (Cat#AGI1471). WD repeat domain 1 expression in wild type (WT) and WD repeat domain 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-WD repeat domain 1 antibody (Cat#AGI1471, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of WD repeat domain 1 expression in H9c2 cells using WD repeat domain 1 antibody (Cat#AGI1471, 1:2,000). Green, isotype control; red, WD repeat domain 1.



Immunocytochemical staining of H9C2 cells with WD repeat domain 1 antibody (Cat#AGI1471, 1:1,000). Nuclei were stained blue with DAPI; WD repeat domain 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.