

Product Information

Monoclonal Anti-WDR62, Clone 3G8

produced in mouse, purified immunoglobulin

Product Number **W3269**

Product Description

Monoclonal Anti-WDR62 (mouse IgG2a isotype) is derived from the hybridoma 3G8 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a fusion protein encoding a fragment of human WDR62 (GeneID: 284403). The isotype is determined using a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, Product Number ISO2.

Monoclonal Anti-WDR62 reacts with human WDR62. The antibody may be used in various immunochemical techniques including immunoblotting (~170 kDa) and immunofluorescence.

WD-repeats are minimally conserved domains of 40-60 amino acids that are initiated by glycine-histidine (GH) dipeptide 11 to 24 residues from the N-terminus, and end with tryptophan-aspartic acid (WD) dipeptide at the C terminus. Between the GH and WD dipeptides is a conserved, ~40-amino-acid core sequence. WD40 proteins are implicated in many essential biological functions including adaptor/regulatory modules in signal transduction, pre-mRNA processing, apoptosis, and cytoskeleton assembly. Proteins containing WD40 repeats coordinate multi-protein complex assemblies and have been found to be associated with several human diseases.¹ A member of this family, WDR62 contains 15 WD repeats and has been identified in a phosphoproteome analysis as a protein associated with the mitotic spindle.² Furthermore, it has been found to physically interact with RALY, TBP, C1orf103, MAPK9, and itself.^{3,4}

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze at -20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 0.5-1 µg/mL is recommended using HEK-293T cells overexpressing human WDR62.

Note: Do not heat the sample prior to loading.

Immunofluorescence: a working concentration of 0.5-1 µg/mL is recommended using HEK-293T cells over-expressing human WDR62.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

References

1. Li, D., and Robert, R., *Cell. Mol. Life Sci.*, **58**, 2085-2097 (2001).
2. Nousianen, M. et al., *Proc. Natl. Acad. Sci. USA*, **103**, 5391-5396 (2006).
3. Stelzl, U. et al., *Cell*, **122**, 957-968 (2005).
4. Raul, J.F. et al., *Nature*, **437**, 1173-1178 (2005).

VS,GG,TD,KAA,PHC,MAM 04/19-1