

FZR Antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # Al16152

Specification

FZR Antibody - N-terminal region - Product Information

Application WB
Primary Accession Q9UM11
Other Accession XP_005259630
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 54kDa KDa

FZR Antibody - N-terminal region - Additional Information

Gene ID 51343

Alias Symbol

FZR1, CDH1, FYR, FZR, KIAA1242,

Other Names

Fizzy-related protein homolog, Fzr, CDC20-like protein 1, Cdh1/Hct1 homolog, hCDH1, FZR1, CDH1, FYR, FZR, KIAA1242

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 &mu, I of distilled water. Final Anti-FZR antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.

Precautions

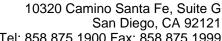
FZR Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

FZR Antibody - N-terminal region - Protein Information

Name FZR1 (<u>HGNC:24824</u>)

Function

Substrate-specific adapter for the anaphase promoting complex/cyclosome (APC/C) E3 ubiquitin-protein ligase complex. Associates with the APC/C in late mitosis, in replacement of CDC20, and activates the APC/C during anaphase and telophase. The APC/C remains active in degrading substrates to ensure that positive regulators of the cell cycle do not accumulate prematurely. At the G1/S transition FZR1 is phosphorylated, leading to its dissociation from the APC/C. Following DNA damage, it is required for the G2 DNA damage checkpoint: its dephosphorylation and reassociation with the APC/C leads to the ubiquitination of PLK1, preventing entry into mitosis. Acts as an adapter for APC/C to target the DNA-end resection factor RBBP8/CtIP for ubiquitination and subsequent proteasomal degradation. Through the regulation of RBBP8/CtIP





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protein turnover, may play a role in DNA damage response, favoring DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR) (PubMed: 25349192).

Cellular Location [Isoform 21: Nucleus

Tissue Location

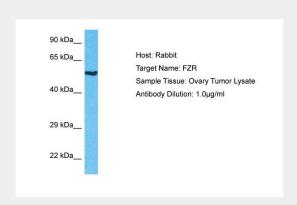
Isoform 2 is expressed at high levels in heart, liver, spleen and some cancer cell lines whereas isoform 3 is expressed only at low levels in these tissues.

FZR Antibody - N-terminal region - 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

FZR Antibody - N-terminal region - Images



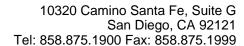
Host: Rabbit Target Name: FZR

Sample Tissue: Ovary Tumor lysates

Antibody Dilution: 1.0µg/ml

FZR Antibody - N-terminal region - Background

Key regulator of ligase activity of the anaphase promoting complex/cyclosome (APC/C), which confers substrate specificity upon the complex. Associates with the APC/C in late mitosis, in replacement of CDC20, and activates the APC/C during anaphase and telophase. The APC/C remains active in degrading substrates to ensure that positive regulators of the cell cycle do not accumulate prematurely. At the G1/S transition FZR1 is phosphorylated, leading to its dissociation from the APC/C. Following DNA damage, it is required for the G2 DNA damage checkpoint: its dephosphorylation and reassociation with the APC/C leads to the ubiquitination of PLK1, preventing entry into mitosis.





FZR Antibody - N-terminal region - References

Kramer E.R., et al. Curr. Biol. 8:1207-1210(1998). Kotani S., et al. Submitted (APR-1998) to the EMBL/GenBank/DDBJ databases. Sudo T., et al. Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases. Zhou Y., et al. Biochem. J. 374:349-358(2003). Nagase T., et al. DNA Res. 6:337-345(1999).