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Datasheet for ABIN487309

anti-FZR1 antibody

Images



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OVERVIEW		
Quantity:	0.1 mg	
Target:	FZR1	
Reactivity:	Human, Mouse, Rat	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This FZR1 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunoprecipitation (IP)	
Product Details		
Immunogen:	Recombinant Human CDH1 protein. Remarks: Hybridoma was established by fusion of Mouse	
	myeloma cell NS-2 with Balb/cmouse splenocyte	
Clone:	DCS-266	
Isotype:	lgG1	
Cross-Reactivity (Details):	Species reactivity (tested):Human, Mouse and Rat.	
Characteristics:	Synonyms: Cdh1/Hct1 homolog, CDC20-like protein 1, Fizzy-related protein homolog, FYR,	
	FZR,KIAA1242	
Purification:	Protein-A Sepharose Chromatography.	
Target Details		
Target:	FZR1	

Target Details

Alternative Name:	FZR1 / CDH1 (FZR1 Products)	
Background:	Two highly conserved WD40-repeat proteins, Cdc20 and Cdh1/Hct1, have been identified as	
	limiting, substrate-specific regulators for anaphase-promoting complex (APC)-dependent	
	proteolysis. Cdc20 and Cdh1 bind directly to APC and activate its cyclin ubiquitination activity.	
	Cdc20 activates APC at the onset of anaphase, while Cdh1 activates APC from late anaphase	
	through G1. Phosphorylation of Cdh1 by cyclin dependent kinases (Cdks), such as Cdc28,	
	blocked Cdh1-APC interaction and APC activation, while dephosphorylation by the phosphatas	
	Cdc14 restored this activity. Activation of the APC and cyclin degradation is required for exit	
	from mitosis, hence, the phosphorylation of Cdc20 and Cdh1 by Cdks regulate APC activity and	
	may control the precise progression of mitosis. Synonyms: CDC20-like protein 1, Cdh1/Hct1	
	homolog, FYR, FZR, Fizzy-related protein homolog, KIAA1242	
Gene ID:	51343	
UniProt:	Q9UM11	
Pathways:	DNA Replication, Synthesis of DNA	
Application Details		
Application Notes:	Western Blot: 1-5 µg/mL for chemiluminescence detection system. Positive Controls: Jurkat,	
	NIH/3T3, C2C12 and Rat-1 cells. Immunoprecipitation: 1-2 µg/200-500 µL of cell extract from	
	x 10^6 cells Positive Control: HeLa Cells.	
	Other applications not tested.	
	Optimal dilutions are dependent on conditions and should be determined by the user. Species	
	Reactivity: Tested: Human, Mouse and Rat. Add. Information: This product was originally produced by MBL International.	
Protocol:	SDS-PAGE & Western Blotting1) Wash the cells 3 times with PBS and suspend with 10 volume	
	of cold Lysis buffer (50 mMTris-HCl, pH 7. 2, 250 mM NaCl, 0. 1% NP-40, 2 mM EDTA, 10%	
	glycerol) containingappropriate protease inhibitors. Incubate it at 4°C with rotating for 30	
	minutes, thensonicate briefly (up to 10 seconds). 2) Centrifuge the tube at 12,000 x g for 10	
	minutes at 4°C and transfer the supernatant toanother tube. Measure the protein concentration	
	of the supernatant and add the Lysisbuffer to make 8 mg/mL solution. 3) Mix the sample with	
	equal volume of Laemmli's sample buffer. 4) Boil the samples for 2 minutes and centrifuge.	
	Load 10 μ L of the sample per lane in a 1mm thick SDS-polyacrylamide gel for electrophoresis.	
	5) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm2 for 1 hourin a	

manufacture's manual for the transfer procedure. 6) To reduce nonspecific binding, soak the membrane in 10% skimmed milk (in PBS, pH7. 2) for 1 hour at room temperature, or overnight at 4°C. 7) Incubate the membrane with primary antibody diluted with PBS, pH 7. 2 containing 1%skimmed milk as suggested in the APPLICATIONS for 1 hour at room temperature. (Theconcentration of antibody will depend on the conditions.)8) Wash the membrane with PBS (5 minutes x 6 times). 9) Incubate the membrane with the 1: 10000 POD-conjugated anti-mouse IgG diluted with 1% skimmed milk (in PBS, pH 7. 2) for 1 hour at room temperature. 10) Wash the membrane with PBS (5 minutes x 6 times). 11) Wipe excess buffer from the membrane, then incubate it with appropriate chemiluminescence reagents for 1 minute. Remove extra reagent from the membrane bydabbing with a paper towel, and seal it in plastic wrap. 12) Remove extra reagent from the membrane by dabbing with paper towel, and seal it inplastic wrap. 13) Expose to an X-ray film in a dark room for 3 minutes. 14) Develop the filmas usual. The condition for exposure and development may vary. Positive Controls for Western blotting: Jurkat, NIH/3T3, C2C12, Rat-1Immunoprecipitation1) Collect the cultured cells from 75-cm2 flask (containing about 0. 5-1 x 10e7 cells). 2) Wash the cells 2 times with PBS and suspend with 400 µL of cold Lysis buffer (50 mMHEPES-KOH, pH 7. 5, 250 mM NaCl, 0. 1% NP-40, 5 mM EDTA,10% glycerol) containing appropriate protease inhibitors. Incubate it at 4°C with rotating for 30 minutes, thensonicate briefly (up to 10 seconds). 3) Centrifuge the tube at 12,000 x g for 10 minutes at 4°C and transfer the supernatant toanother tube. 4) Add 50 µL of 50% protein G agarose beads in the supernatant. Incubate it at 4°C withrotating for 60 minutes. 5) Centrifuge the tube at 12,000 x g for 5 minutes at 4°C. Supernatant is equally divided into another two tube. 6) Add the mouse IgG1 isotype control antibody or anti-Cdh1/Fzr (DCS-266) monoclonalantibody at the amount as suggested in the APPLICATIONS to the supernatant. Vortexbriefly and incubate with gently agitation for 30-120 minutes at 4°C. 7) Add 20 µL of 50% protein G agarose beads into the tube. Mix well and incubate withgentle agitation for 30-60 minutes at 4°C.

Restrictions:

For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS, pH 7.2 containing 50 % Glycerol without preservatives.
Preservative:	Without preservative
Storage:	-20 °C

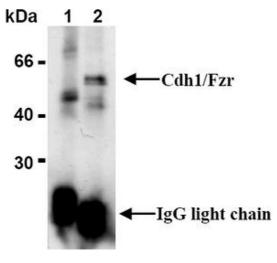
Handling

Storage Comment: Store the antibody undiluted at -20 °C.

Shelf life: one year from despatch.

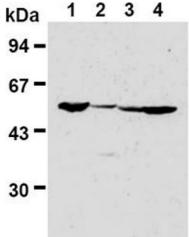
Expiry Date: 12 months

Images



Western Blotting

Image 1.



Western Blotting

Image 2.