Datasheet for ABIN710051

anti-FZD7 antibody (AA 501-574)

1 Validation | 3 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µL
Target:	FZD7
Binding Specificity:	AA 501-574
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FZD7 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Frizzled 7
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Pig,Chicken,Guinea Pig
Purification:	Purified by Protein A.

Target Details

Target:	FZD7

Target Details

Alternative Name:	Frizzled 7 (FZD7 Products)
Background:	Synonyms: FzE3, Frizzled-7, Fz-7, hFz7, FZD7 Background: Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. May be involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues.
Gene ID:	8324
UniProt:	O75084
Pathways:	WNT Signaling, Stem Cell Maintenance

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

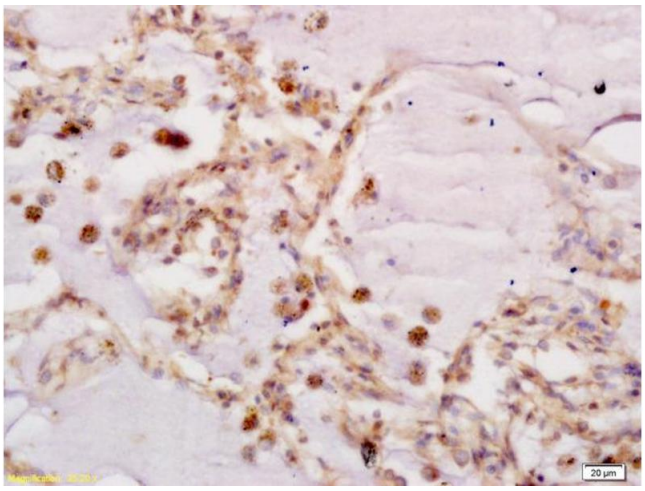
Handling

	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

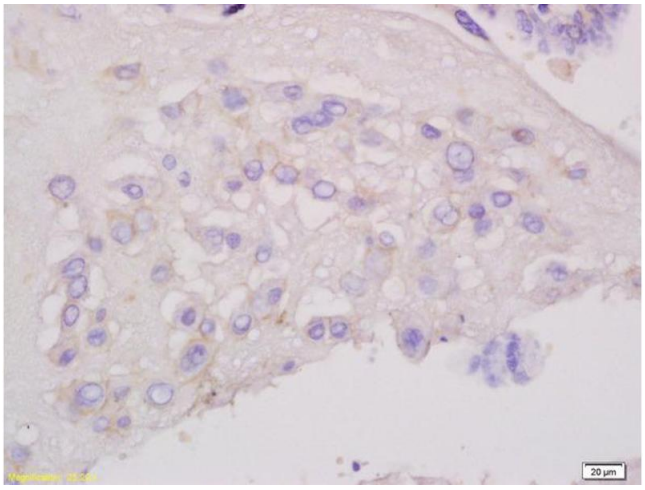
Product cited in:	Deng, Zhang, Zhang, Wen, Miao, Guo: "MicroRNA-142-3p inhibits cell proliferation and invasion of cervical cancer cells by targeting FZD7." in: **Tumour biology**, (2015) (PubMed).

Validation report #029805 for Western Blotting (WB)



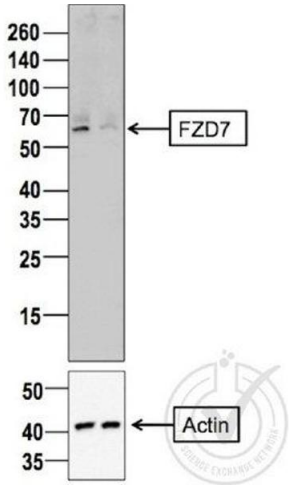
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-Frizzled 7/FZE3 Polyclonal Antibody, Unconjugated (ABIN710051) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human placenta tissue labeled with Anti-Frizzled 7/FZE3 Polyclonal Antibody, Unconjugated (ABIN710051) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 3. Image provided by the Independent Validation Program (badge number 29805). Lane 1: MDA-MB-231 cell extract, Lane 2: c6/36 mosquito cell extract (non-reactivespecies) probed with Rabbit Anti-Frizzled 7 Polyclonal Antibody, Unconjugated at 1:100 overnight at 4˚C. Followed by conjugation to secondary antibody at 1:10000 for 60 min at 26˚C.

Validation report #029805 for Western Blotting (WB)

Successfully validated (Western Blotting (WB))

by Alamo Laboratories Inc

Report Number: 029805

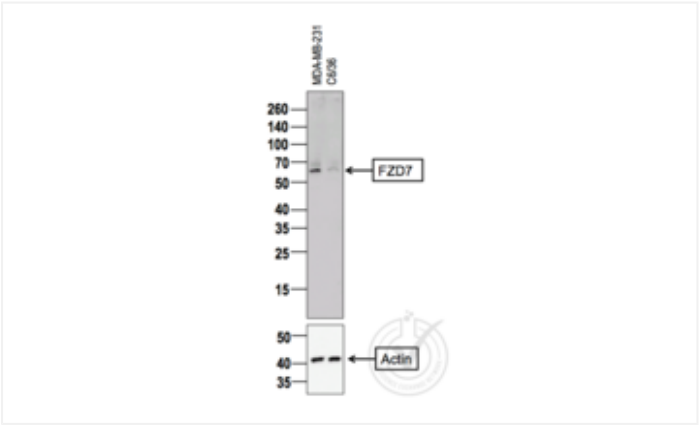
Date: Aug 26 2014

Lot Number:	120426
Method validated:	Western Blotting (WB)
Positive Control:	MDA-MB-231 cells
Negative Control:	C6/36 cells (non-reactive species)
Notes:	A strong band was observed in the positive control sample at the expected molecular weight of ~64 kDa. The band is also faintly observed in the negative control sample, which may indicate species cross-reactivity.
Primary Antibody:	- Antigen: Frizzled Family Receptor 7 (FZD7) - Catalog number: ABIN710051 - Supplier: Bioss - Supplier catalog number: bs-5125R - Lot number: 120426 - Antibody Dilution: 1:100
Secondary Antibody:	- Antigen: Goat Anti-Rabbit IgG (H + L)-HRP Conjugate - Supplier: Bio-Rad - Catalog number: #170-6515 - Lot number: L170-6515 - Antibody Dilution: 1:10,000
Controls:	• Positive control: MDA-MB-231 cells • Negative control: C6/36 cells
Protocol:	• 1. The cell extracts were heated at 95°C for 5 minutes in 1X SDS Sample Buffer containing 1% SDS and 1.25% β-mercaptoethanol. • 2. 15 µl of heated culture-media were loaded and resolved on 8-16% SDS-polyacrylamide gel. • 3. The Thermo Scientific - Spectra Multicolor Broad Range (Cat # 26634) were used as molecular mass markers. • 4. Proteins were then transferred onto PVDF membrane by wet transfer and protein transfer was confirmed with Ponceau-S staining. • 5. The PVDF membrane was incubated with 25 ml of blocking buffer [Tris Buffered Saline, pH 7.4 plus 0.1% TW20 (TBST)] containing 5% (W/V) BSA at room temperature for 1 hour. • 6. The membrane was rinsed with TBST once. • 7. The membrane was immersed with the protein side up in the primary antibody solution in TBST containing 5% (W/V) BSA and incubated for 24 hours at 4°C. • 8. The membrane was rinsed in TBST thrice for 5 minutes each. • 9. The membrane was incubated in the HRP-conjugated secondary antibody solution in TBST containing 5% (W/V) BSA and incubated for 1 hour at room temperature (~26°C) with gentle agitation.

- 10. The membrane was rinsed thrice TBST thrice for 5 minutes each.
- 11. The membrane was rinsed in TBS twice for 30 seconds each.
- 12. Signals were detected with ECL-2 Substrate. The blot was scanned for 45 minutes.
- 13. The membrane was rinsed three times TBST.
- 14. Incubated in Acidic Glycine Stripping Buffer at room temperature with gentle agitation for 3 times, 10 minutes each.
- 15. The membrane was washed in TBST 2 times for 10 minutes each.
- 16. Repeated Steps 5-12 with the loading control antibody (for Anti-actin) and its matching secondary antibody.

Experimental Notes:	- No experimental challenges noted.

Image for Validation report #029805



Validation image no. 1 for anti-Frizzled Family Receptor 7 (FZD7) (AA 501-574) antibody (ABIN710051)

Figure 1: Western Blot for FZD7. Arrowhead indicates the expected molecular weight of ~64 kDa.