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

# ZFYVE20 Antibody (N-Term)

**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP21374a**

## Specification

### ZFYVE20 Antibody (N-Term) - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | Q9H1K0 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **88870** |

### ZFYVE20 Antibody (N-Term) - Additional Information

**Gene ID** 64145

**Other Names**
Rabenosyn-5, 110 kDa protein, FYVE finger-containing Rab5 effector protein rabenosyn-5, RAB effector RBSN {ECO:0000312|HGNC:HGNC:20759}, Zinc finger FYVE domain-containing protein 20, RBSN (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=20759" target="_blank">HGNC:20759</a>)

**Target/Specificity**
This ZFYVE20 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 41-65 amino acids from the human region of human ZFYVE20.

**Dilution**
WB~~1:2000

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
ZFYVE20 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

### ZFYVE20 Antibody (N-Term) - Protein Information

**Name** RBSN (HGNC:20759)

**Function** Rab4/Rab5 effector protein acting in early endocytic membrane fusion and membrane

trafficking of recycling endosomes. Required for endosome fusion either homotypically or with clathrin coated vesicles. Plays a role in the lysosomal trafficking of CTSD/cathepsin D from the Golgi to lysosomes. Also promotes the recycling of transferrin directly from early endosomes to the plasma membrane. Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate (PtdInsP3) (PubMed:11062261, PubMed:11788822, PubMed:15020713). Plays a role in the recycling of transferrin receptor to the plasma membrane (PubMed:22308388).

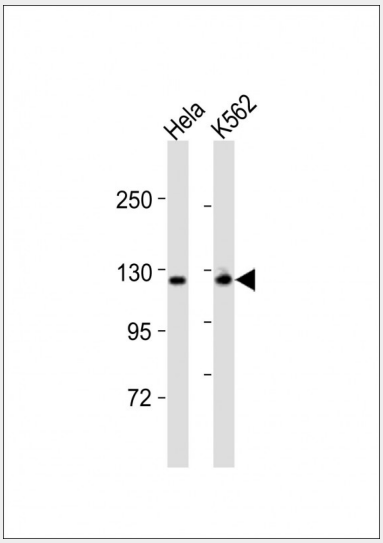
**Cellular Location**
Cell membrane; Lipid-anchor; Cytoplasmic side. Early endosome membrane; Lipid-anchor Note=Enriched in endosomes that are in close proximity to clathrin- enriched regions at the cell surface.

## ZFYVE20 Antibody (N-Term) - Protocols

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

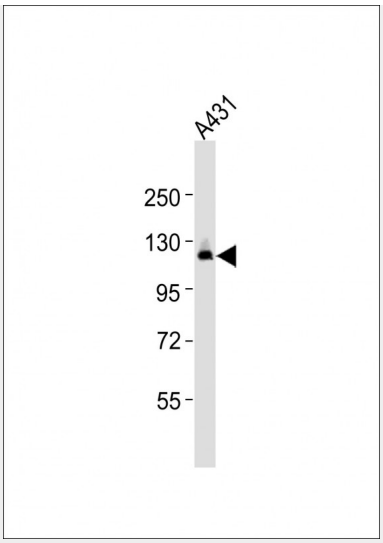
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## ZFYVE20 Antibody (N-Term) - Images




All lanes : Anti-ZFYVE20 Antibody (N-Term) at 1:8000 dilution Lane 1: Hela whole cell lysates Lane 2: K562 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 89 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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




Anti-ZFYVE20 Antibody (N-Term)at 1:2000 dilution + A431 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 89 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## ZFYVE20 Antibody (N-Term) - Background

Rab4/Rab5 effector protein acting in early endocytic membrane fusion and membrane trafficking of recycling endosomes. Required for endosome fusion either homotypically or with clathrin coated vesicles. Plays a role in the lysosomal trafficking of CTSD/cathepsin D from the Golgi to lysosomes. Also promotes the recycling of transferrin directly from early endosomes to the plasma membrane. Binds phospholipid vesicles containing phosphatidylinositol 3-phosphate (PtdInsP3) (PubMed:11062261, PubMed:11788822, PubMed:15020713). Plays a role in the recycling of transferrin receptor to the plasma membrane (PubMed:22308388).

## ZFYVE20 Antibody (N-Term) - References

Nielsen E.,et al.J. Cell Biol. 151:601-612(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Muzny D.M.,et al.Nature 440:1194-1198(2006).
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.
de Renzis S.,et al.Nat. Cell Biol. 4:124-133(2002).