

## Datasheet for ABIN7011299

### anti-PIKFYVE antibody

#### 4 Images

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#### Overview

Quantity:	60 µL
Target:	PIKFYVE
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIKFYVE antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

#### Product Details

Immunogen:	Recombinant fusion protein of human PIKFYVE (NP_689884.1).
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

#### Target Details

Target:	PIKFYVE
Alternative Name:	PIKFYVE ( <a href="#">PIKFYVE Products</a> )
Background:	Phosphorylated derivatives of phosphatidylinositol (PtdIns) regulate cytoskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. Humans have multiple PtdIns proteins that differ by the degree and position of phosphorylation of the inositol ring. This gene encodes an enzyme (PIKfyve, also

## Target Details

known as phosphatidylinositol-3-phosphate 5-kinase type III or PIPKIII) that phosphorylates the D-5 position in PtdIns and phosphatidylinositol-3-phosphate (PtdIns3P) to make PtdIns5P and PtdIns(3,5)biphosphate. The D-5 position also can be phosphorylated by type I PtdIns4P-5-kinases (PIP5Ks) that are encoded by distinct genes and preferentially phosphorylate D-4 phosphorylated PtdIns. In contrast, PIKfyve preferentially phosphorylates D-3 phosphorylated PtdIns. In addition to being a lipid kinase, PIKfyve also has protein kinase activity. PIKfyve regulates endomembrane homeostasis and plays a role in the biogenesis of endosome carrier vesicles from early endosomes. Mutations in this gene cause corneal fleck dystrophy (CFD), an autosomal dominant disorder characterized by numerous small white flecks present in all layers of the corneal stroma. Histologically, these flecks appear to be keratocytes distended with lipid and mucopolysaccharide filled intracytoplasmic vacuoles. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

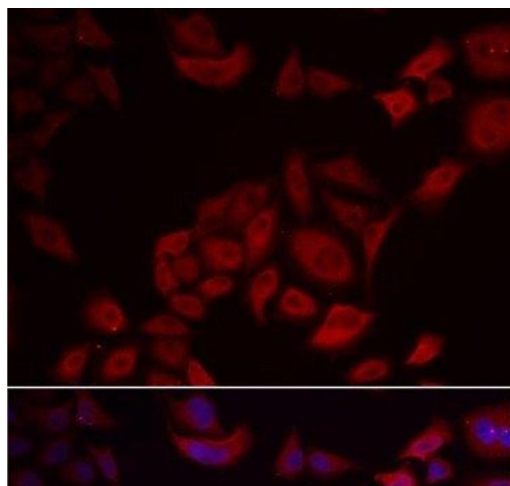
Molecular Weight:	Observed_MW: 280 kDa Calculated_MW: 50 kDa/51 kDa/61 kDa/237 kDa
Gene ID:	200576
UniProt:	<a href="#">Q9Y2I7</a>
Pathways:	<a href="#">Inositol Metabolic Process</a>

## Application Details

Application Notes:	WB 1:500-1:2000 IHC 1:50-1:100 IF 1:10-1:100
Restrictions:	For Research Use only

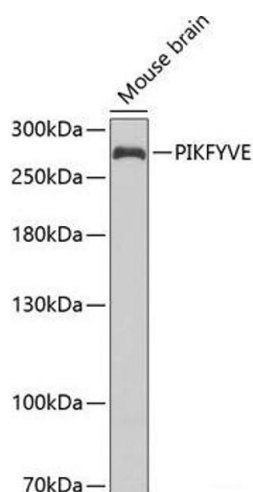
## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



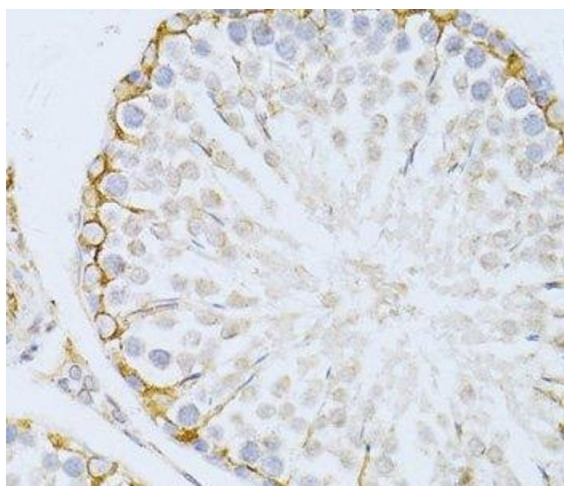
#### Immunofluorescence

**Image 1.** Immunofluorescence analysis of U2OS cells using PIKFYVE Polyclonal Antibody



#### Western Blotting

**Image 2.** Western blot analysis of extracts of Mouse brain using PIKFYVE Polyclonal Antibody at dilution of 1:1000.



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Immunohistochemistry of paraffin-embedded Rat testis using PIKFYVE Polyclonal Antibody at dilution of 1:100 (40x lens).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7011299.