

**CAZIP Antibody**  
**Catalog # ASC11082****Specification**

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**CAZIP Antibody - Product Information**

Application	WB, IHC-P, IF, E
Primary Accession	<a href="#">Q5JR59</a>
Other Accession	<a href="#">NP_001028774</a> , <a href="#">140161498</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	CAZIP antibody can be used for detection of CAZIP by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

**CAZIP Antibody - Additional Information**

Gene ID	23281
Target/Specificity	
MTUS2;	

**Reconstitution & Storage**

CAZIP antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

CAZIP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CAZIP Antibody - Protein Information**

**Name** MTUS2

**Synonyms** CAZIP, KIAA0774, TIP150

**Function**

Binds microtubules. Together with MAPRE1 may target the microtubule depolymerase KIF2C to the plus-end of microtubules. May regulate the dynamics of microtubules at their growing distal tip.

**Cellular Location**

Cytoplasm, cytoskeleton. Note=Associated with the microtubule network at the growing distal tip (the plus-end) of microtubules

**Tissue Location**

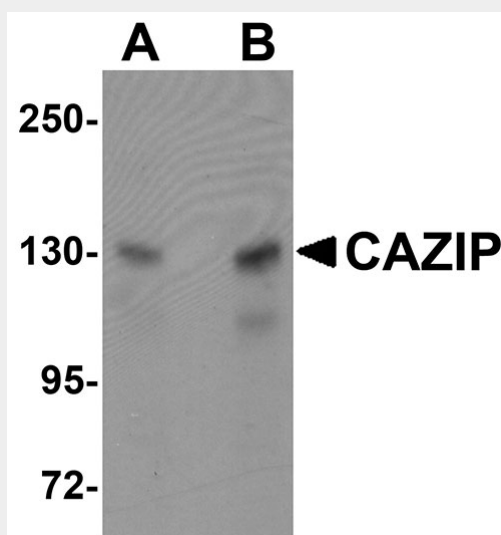
Detected in embryonic stem cells differentiating to cardiomyocytes.

## CAZIP Antibody - Protocols

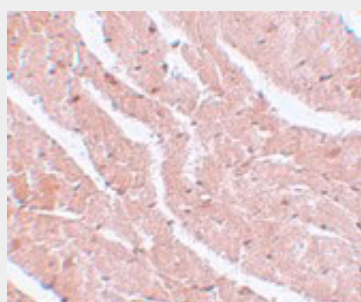
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

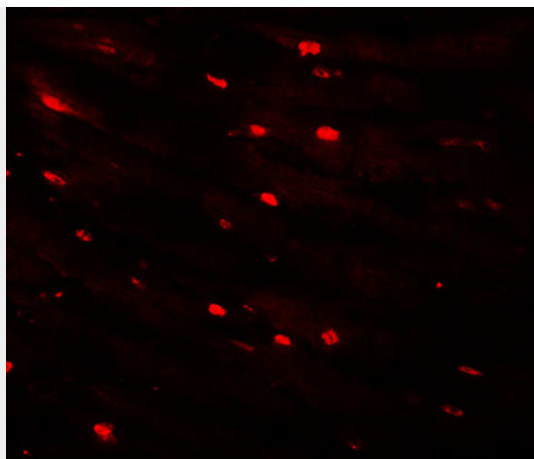
## CAZIP Antibody - Images



Western blot analysis of CAZIP in A20 cell lysate with CAZIP antibody at (A) 0.5 and (B) 1  $\mu$ g/mL.



Immunohistochemistry of CAZIP in mouse heart tissue with CAZIP antibody at 5  $\mu$ g/mL.



Immunofluorescence of CAZIP in mouse heart tissue with CAZIP antibody at 20 µg/mL.

### **CAZIP Antibody - Background**

CAZIP Antibody: CAZIP, also known as TIP150, contains a leucine-zipper domain at the C-terminus and has at least three isoforms. CAZIP is expressed in heart during early cardiac development and in parts of the nervous system in later embryonic development. It is thought to bind microtubules and facilitate the end-binding protein 1 (EB1)-dependent loading of MCAK onto microtubules plus ends and orchestrates the dynamics at the plus end of microtubules. CAZIP may regulate the dynamics of microtubules at their growing distal tip.

### **CAZIP Antibody - References**

Du Puy L, Beqqali A, Monshouwer-Kloots J, et al. CAZIP, a novel protein expressed in the developing heart and nervous system. *Dev. Dyn.*2009; 238:2903-11.  
Jiang K, Wang J, Liu J, et al. TIP150 interacts with and targets MCAK at the microtubule plus ends. *EMBO Rep.*2009; 10:857-65.