

CAZIP Antibody

Catalog # ASC11082

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q5JR59
Other Accession	NP_001028774 , 140161498
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	150195
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CAZIP antibody can be used for detection of CAZIP by Western blot at 0.5 - 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	23281
Other Names	Microtubule-associated tumor suppressor candidate 2, Cardiac zipper protein, Microtubule plus-end tracking protein TIP150, Tracking protein of 150 kDa, MTUS2, CAZIP, KIAA0774, TIP150
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.

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.

Background

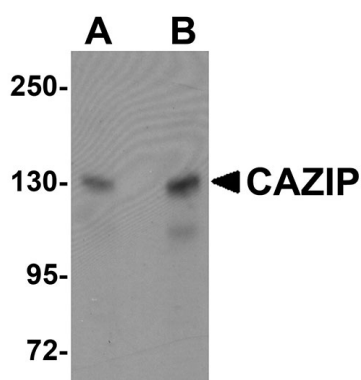
CAZIP Antibody: CAZIP, also known as TIP150, contains a leucine-zipper domain at the C-terminus and has at least three isoforms. CAZIP is expressed in heart during early cardiac development and in parts of the nervous system in later embryonic development. It is thought to bind microtubules and facilitate 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.

References

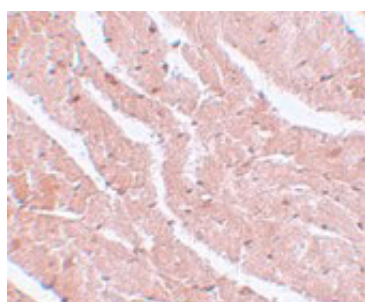
Du Puy L, Beqqali A, Monshouwer-Kloots J, et al. CAZIP, a novel protein expressed in the developing heart and nervous system. *Dev. Dyn.*2009; 238:2903-11.

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.

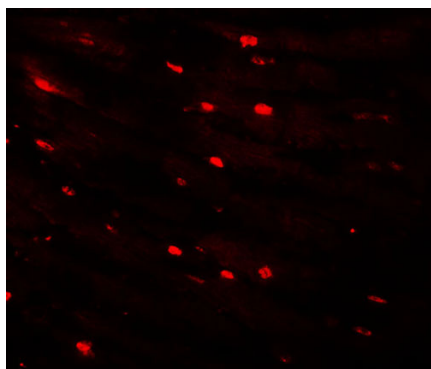
Images



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



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



Immunofluorescence of CAZIP in mouse heart tissue with CAZIP antibody at 20 $\mu\text{g/mL}$.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.