

MACF1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant MACF1.

Catalog # AT2757a

Product Information

Application	E
Primary Accession	Q9UPN3
Other Accession	BC007330
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	6G7
Calculated MW	838308

Additional Information

Gene ID	23499
Other Names	Microtubule-actin cross-linking factor 1, isoforms 1/2/3/5, 620 kDa actin-binding protein, ABP620, Actin cross-linking family protein 7, Macrophin-1, Trabeculin-alpha, MACF1, ABP620, ACF7, KIAA0465, KIAA1251
Target/Specificity	MACF1 (AAH07330, 1 a.a. ~ 95 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MACF1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

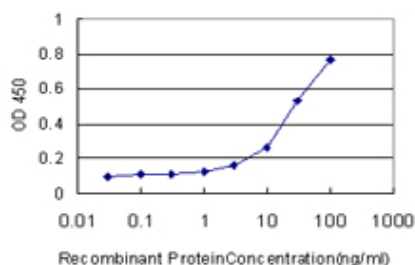
Background

The protein encoded by this gene belongs to the plakin family of cytoskeletal linker proteins. This protein family forms bridges between different cytoskeletal elements through specialized modular domains. The encoded protein is one of the largest size proteins identified in human cytoskeletal proteins. It has functional actin and microtubule binding domains, and it appears to stabilize actin at sites where microtubules and microfilaments meet. It may function in microtubule dynamics to facilitate actin-microtubule interactions at the cell periphery and to couple the microtubule network to cellular junctions. Alternatively spliced transcript variants encoding distinct isoforms have been described.

References

1. Laminin-based cell adhesion anchors microtubule plus ends to the epithelial cell basal cortex through $\text{LL5}\{\alpha\}/\{\beta\}$. Hotta A, Kawakatsu T, Nakatani T, Sato T, Matsui C, Sukezane T, Akagi T, Hamaji T, Grigoriev I, Akhmanova A, Takai Y, Mimori-Kiyosue Y. *J Cell Biol.* 2010 May 31;189(5):901-17.

Images



Detection limit for recombinant GST tagged MACF1 is approximately 1 ng/ml as a capture antibody.

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