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Human MFAP4 antibody

Catalog Number: ATGA0268

PRODUCT INFORMATION

Catalog number
ATGA0268

Clone No.
AT12D11

Product type
Monoclonal Antibody

UnitProt No.
P55083

NCBI Accession No.
NP_002395

Alternative Names
microfibrillar-associated protein 4, microfibrillar-associated protein 4, Microfibril associated glycoprotein 4, Microfibril-associated glycoprotein 4

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human MFAP4 (22-255aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA,WB

Usage
The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

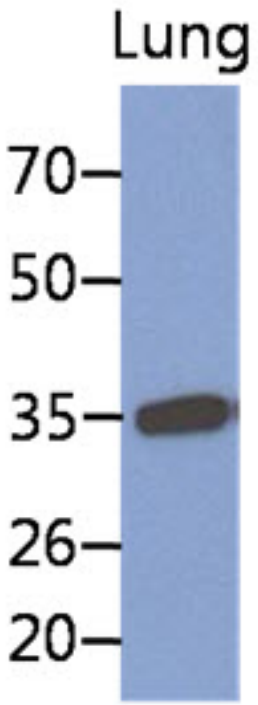
Several microfibril associated proteins (MFAPs) have been cloned, including MFAP1, MFAP3 and MFAP4. The MFAP1 and MFAP3 genes are localized near the fibrillin genes FBN1 and FBN2, respectively. Mutations in FBN1 are linked to Marfan syndrome. Mutations in FBN2 have been linked to congenital contractural arachnodactyly. This suggests roles for MFAP1 and MFAP3 in heritable diseases affecting microfibrils. Deletion of MFAP4 was found in 30 of 31 patients with Smith-Magenis syndrome (SMS), a clinically recognizable multiple congenital anomaly/mental retardation syndrome. Also, MFAP4 play an important role in calcium-dependent cell adhesion or intercellular interactions. These structural features of MFAP4 suggest that it is an extracellular matrix protein involved in cell adhesion or intercellular interactions.

General References

Zhao, Z., et al. (1995) Hum Mol Genet 4(4): 589-97.
Kasamatsu, S., et al. (2011) Sci Rep 1:164.

DATA

Western blot analysis (WB)



The tissue lysate of lung (30ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human MFAP4 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.