

Bulk Anti-Human Fibulin-4 (5G11) Antibody

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Product Benefits:

ichorbio's bulk anti-human Fibulin-4 antibody (5G11) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from [Bio X Cell](#) at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (0.5EU/mg) at an even higher purity (98% versus 95%).
ichorbio: the best antibodies for *in vivo* research.

Target:

Fibulin-4

Clone:

5G11

Isotype:

Mouse IgG

Other Names:

EFEMP2, FIBL-4, UPH1

Uniprot:

[O95967](#)

Host:

Mouse

Species Reactivity:

Human

Specificity:

Clone 5G11 recognizes Human Fibulin-4. Polyclonal antibodies raised against the purified proteins did not show any crossreactivity with other family members.

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

Antigen Distribution:

Fibulin-4 is predominantly expressed in tissues rich in elastic fibers.

Background:

There are currently seven genes in the fibulin family (Fibulin-1, 2, 3, 4, 5, 6, and 7) that are associated with elastic fibers. The fibulins are widely distributed throughout the body and are more prominent in tissues rich in elastic fibers and are often associated with vasculature and elastic tissues. Fibulin-4 appears to be the most critical member of this family of proteins in modulating elastic-fiber formation because studies have shown that fibulin-4-null mice do not produce elastic fibers at all.¹ This extracellular glycoprotein has a molecular weight of approximately 49 kD, and is not only considered a structural protein of the extracellular matrix, but also a regulatory factor required for normal elastin expression in human fibroblasts.² Due to the regulatory role of Fibulin-4, it is thought that a pathophysiological link may exist between the modulation of fibulin-4 levels and diseases, such as WBS (Williams-Beuren syndrome), that are characterized by impaired elastic-fiber formation. Furthermore, fibulin-4 has been shown to interact with P53, a crucial homologous protein that prevents cancer formation, and thus functions as a tumor suppressor. One study indicated that colon tumors were found to have approximately 2-7-fold increases of fibulin-4 mRNA expression. This suggests that the dysregulated expression of the fibulin-4 gene is associated with human colon tumourigenesis.

Immunogen:

Recombinant, human Fibulin-4 produced in E. coli BL21 cells

Concentration:

1.0 mg/ml

Formulation:

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and azide free

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

? 1.0 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ? 5%

Aggregation level ? 1%

IMPACT Pathogen Test:

We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our mouse antibodies are tested for: Mycoplasma spp. Mycoplasma pulmonis Sendai virus Mouse hepatitis virus Pneumonia virus of mice Minute virus of mice Mouse parvovirus (MPV1-5) Theiler's murine encephalomyelitis virus Murine norovirus Reovirus 3 Mouse rotavirus Ectromelia virus Lymphocytic choriomeningitis virus Polyoma virus Lactate dehydrogenase-elevating virus Mouse adenovirus (MAD1, MAD2) Mouse cytomegalovirus K virus Mouse thymic virus Hantaan virus Corynebacterium bovis Corynebacterium spp. (HAC2)

Storage:

This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

Immunofluorescence, Immunohistochemistry (Paraffin), Western Blotting

Application Notes:

Each investigator should determine their own optimal working dilution for specific applications.

Use:

Products are for research use only.

Alternative Names:

- 130 kD pemphigus vulgaris antigen antibody
- 130 kDa pemphigus vulgaris antigen antibody
- Balding antibody
- Cadherin family member 6 antibody
- CDHF 6 antibody
- CDHF6 antibody
- Desmoglein 3 antibody
- Desmoglein 3 precursor antibody
- Desmoglein-3 antibody
- Desmoglein3 antibody
- DKFZp686P23184 antibody
- DSG 3 antibody
- DSG3 antibody
- DSG3_HUMAN antibody
- Pemphigus vulgaris antigen antibody
- PVA antibody