abcam

ab230852

Anti-FKBP10 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human FKBP10 aa 550-600. The exact immunogen used to generate this antibody is proprietary information. Database link Q96AY3
Purification technique	Precipitation Ammonium Sulphate
Concentration	1.2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Predicted

Species	Mouse

Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/50 - 1/100
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information FKBP10

Function	PPIases accelerate the folding of proteins during protein synthesis.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	FKBP10 also known as FKBP65 is a protein that functions as a peptidyl-prolyl cis-trans isomerase (PPIase). This protein with a mass of approximately 65 kDa is involved in protein folding by catalyzing the isomerization of proline residues in polypeptide chains. FKBP10 is expressed in the endoplasmic reticulum of cells and it contributes to the synthesis and maturation of collagens which are essential for the structural integrity of various tissues.
Biological function summary	FKBP10 plays a critical role in ensuring proper collagen biosynthesis. It forms part of a complex involved in stabilizing the collagen triple-helix structure during its assembly in the endoplasmic reticulum. This action by FKBP10 is necessary for maintaining tissue strength and flexibility due to its involvement in cross-linking collagen fibers. This activity highlights the importance of FKBP10 in connective tissue development and maintenance.
Pathways	FKBP10 is deeply embedded in the collagen synthesis and folding processes. It interacts within the pathways that incorporate transforming growth factor-beta (TGF-β) influencing extracellular matrix formation and maintenance. FKBP10's function is linked to proteins like prolyl 4-hydroxylase which are vital for collagen modification impacting the maturation and structural stability of collagen fibrils.
Associated diseases and disorders	FKBP10 mutations have associations with connective tissue disorders such as osteogenesis imperfecta and Ehlers-Danlos syndrome. These diseases result from defects in collagen formation and stability. FKBP10's dysfunction can lead to compromised structural properties of tissues correlating with irregularities linked to the protein HSP47 another chaperone involved in collagen processing. Understanding FKBP10's role in these diseases aids in identifying potential therapeutic targets for correcting defects in collagen biosynthesis.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

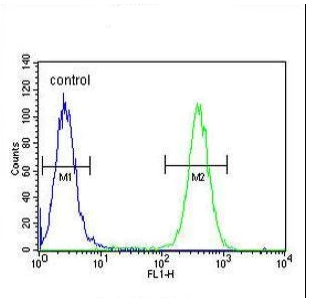
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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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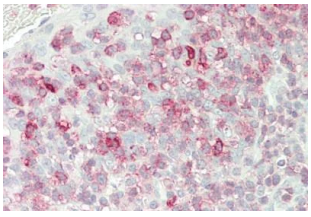
3 product images



Flow Cytometry (Intracellular) - Anti-FKBP10 antibody (ab230852)

FKBP10 Flow Cytometry (Intracellular) staining using rabbit Anti-FKBP10 antibody

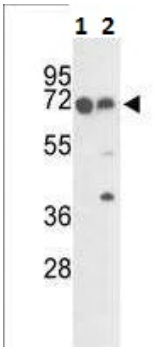
Intracellular flow cytometric analysis of A2058 cell line labeling FKBP10 with ab230852 at 1/10 dilution (green) compared withnegative control cell line (blue). FITC-conjugated goat anti-rabbit secondary antibodies were used for the analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FKBP10 antibody (ab230852)

FKBP10 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-FKBP10 antibody

Formalin-fixed, paraffin-embedded human tonsil tissue stained for FKBP10 using ab230852 at 1/50 dilution in immunohistochemical analysis.



Western blot - Anti-FKBP10 antibody (ab230852)

All lanes:
Western blot - Anti-FKBP10 antibody (ab230852) at 1/1000 dilution

Lane 1:
A2058 whole cell lysate at 35 µg

Lane 2:
A-375 (human malignant melanoma cell line) whole cell lysate at 35 µg

Developed using the ECL technique.

Predicted band size: 64 kDa

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