abcam

Product datasheet

Anti-Cyclophilin 40 antibody ab3562

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概述

产品名称	Anti-Cyclophilin 40抗体
描述	**兔多克隆抗体**to Cyclophilin 40
特异性	Detects cyclophilin 40 (CyP 40) from Human and Rat tissues and cells. This antibody does not cross-react with CyPA.
经测试应用	**适用于:** Flow Cyt, ICC, IHC-Fr, IP, WB, IHC-P, ICC/IF
种属反应性	**与反应:** Mouse, Rat, Rabbit, Chicken, Cow, Human, Non human primates
免疫原	Synthetic peptide corresponding to Human Cyclophilin 40 aa 356-370. Sequence: AQKDKEKAVYAKMFA Run BLAST with Run BLAST with

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituent: 99% PBS
纯度	Whole antiserum
Primary antibody说明	Immunophilins are a family of soluble cytosolic receptors capable of binding to one of two major immunosuppressant agents: cyclosporin A (CsA) or FK506. Proteins that bind FK506 are termed FK506 Binding Proteins (FKBPs) and those that bind cyclosporin A are called cyclophilins (CyP). Both CyP:CsA and FKBP:FK506 complexes have been shown to inhibit calcineurin, a calcium and calmodulin dependent protein phosphatase which has been implicated as an important signaling enzyme in T-cell activation, providing a possible mechanism of immunosuppression by CsA and FK506. Immunophilins function as peptidyl prolyl cis-trans-isomerases (PPIase) whose activity is inhibited by their respective immunosuppressant compounds. As PPIase's, immunophilins accelerate folding of some proteins both in vivo and in vitro by catalyzing slow steps in the initial folding and rearrangement of proline containing proteins. CyP 40, a 40 kDa protein, shares significant homology with smaller CyPA (CyP 18) and FKBP59. CyP 40 exhibits the characteristic CsA binding and isomerase activity of CyP 18, though these activities appear to be less with CyP 40 than with Cyp 18. Like FKBP59, CyP 40 has been found in progesterone receptor complexes. CyP 40 is expressed at similar levels in many tissues.

克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab3562** in the following tested applications.

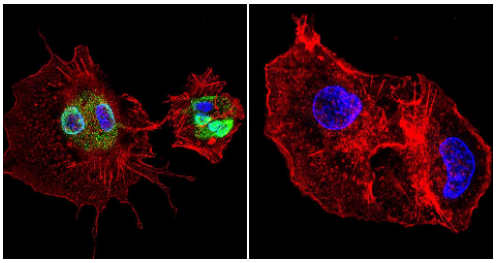
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
EMSA		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab171870-Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
ICC		Use at an assay dependent concentration.
IHC-Fr		1/100.
IP		Use at an assay dependent concentration.
WB		1/1000.
IHC-P		Use at an assay dependent concentration.
ICC/IF		1/200.

靶标

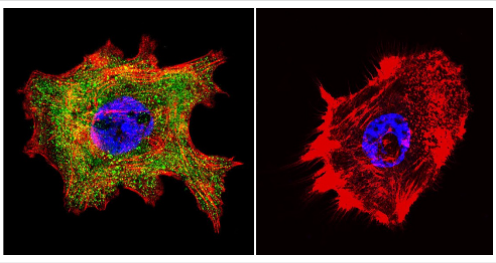
功能	PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.
组织特异性	Widely expressed.
序列相似性	Belongs to the cyclophilin-type PPIase family. PPIase D subfamily. Contains 1 PPIase cyclophilin-type domain. Contains 3 TPR repeats.
细胞定位	Cytoplasm.

Anti-Cyclophilin 40 antibody 图像



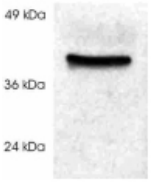
Immunocytochemistry/ Immunofluorescence - Anti-Cyclophilin 40 antibody (ab3562)

Immunocytochemistry/Immunofluorescence analysis of HepG2 cells labeling Cyclophilin 40 (green) with ab3562 at 1/200. F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue). Cells were fixed with formaldehyde and incubated with the primary antibody overnight at 4°C. A DyLight 488-conjugated secondary antibody was used. 60X magnification. Right - negative control.



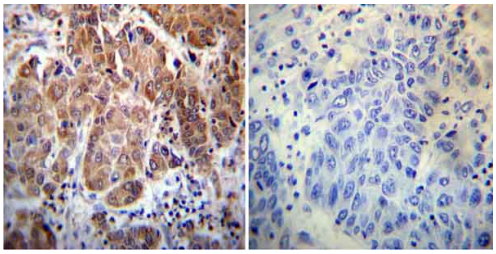
Immunocytochemistry/ Immunofluorescence - Anti-Cyclophilin 40 antibody (ab3562)

Immunocytochemistry/Immunofluorescence analysis of A431 cells labeling Cyclophilin 40 (green) with ab3562 at 1/200. F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue). Cells were fixed with formaldehyde and incubated with the primary antibody overnight at 4°C. A DyLight 488-conjugated secondary antibody was used. 60X magnification. Right - negative control.



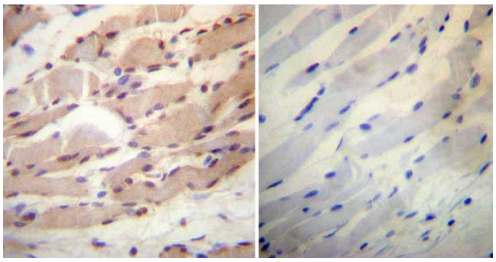
Western blot - Cyclophilin 40 antibody (ab3562)

ab3562 at a dilution of 1/1000 staining Cyp 40 in Rat spleen lysate by Western blot.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclophilin 40 antibody (ab3562)

Immunohistochemistry was performed on both normal and cancer biopsies of deparaffinized Human hepatocarcinoma tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH 6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at aab3562) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cyclophilin 40 antibody (ab3562)

Immunohistochemistry was performed on both normal and cancer biopsies of deparaffinized Human skeletal muscle tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH 6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1/100 with a rabbit polyclonal antibody recognizing Cyclophilin D (ab3562) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.

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