abcam

ab178688

Anti-STARD5 antibody [EPR13545(B)]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR13545(B)
Purification technique	Affinity purification Protein A
Concentration	0.084 - 0.104 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/10 - 1/100
Notes	ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information StAR-related lipid transfer protein 5

Function	May be involved in the intracellular transport of sterols or other lipids. May bind cholesterol or other sterols (By similarity).

Storage

Shipped at conditions	Conditional Ambient
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

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

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

Activity summary	STARD5 also known as StAR-related lipid transfer domain protein 5 is an important player in intracellular cholesterol transport. It functions as a START domain containing protein facilitating the transfer of cholesterol and other lipids between intracellular membranes. With a molecular mass of approximately 23 kDa STARD5 displays a specific pattern of expression in tissues. It is highly expressed in the liver kidney and spleen where it plays a role in cellular lipid regulation.
Biological function summary	The transfer of cholesterol and lipids by STARD5 helps maintain cellular lipid homeostasis. It is not known to form part of a complex but operates independently to ensure that cholesterol levels are balanced within cells. This activity supports cell membrane integrity and the synthesis of steroid hormones and bile acids. By regulating these processes STARD5 plays a significant function in maintaining cell health and metabolism.
Pathways	The activity of STARD5 is critical in the cholesterol transport and metabolism pathway. It works closely with proteins such as NPC1 and NPC2 which also facilitate cholesterol trafficking. This involvement aligns STARD5 with the lysosomal storage pathway highlighting its role in managing cholesterol storage and mobilization within cells.
Associated diseases and disorders	Altered function or expression of STARD5 links to conditions like Niemann-Pick disease type C and obesity-related dyslipidemia. Niemann-Pick disease type C is closely tied to disrupted cholesterol transport where STARD5's role intersects with NPC1 and NPC2 proteins both known for their involvement in this lysosomal disorder. In obesity-related dyslipidemia the protein's regulation of cholesterol levels can impact lipid profiles influencing disease development and progression.

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.

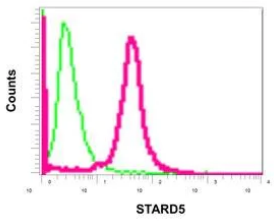
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

---

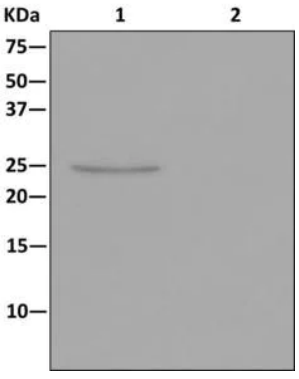
4 product images



Flow Cytometry (Intracellular) - Anti-STARD5 antibody [EPR13545(B)] (ab178688)

STARD5 Flow Cytometry (Intracellular) staining using rabbit Anti-STARD5 antibody

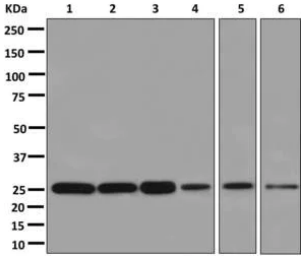
Intracellular flow cytometric analysis of permeabilized 293T cells using ab178688 at a 1/10 dilution (red) or a rabbit IgG (negative) (green).



Immunoprecipitation - Anti-STARD5 antibody [EPR13545(B)] (ab178688)

Western blot analysis on immunoprecipitation pellet from (Lane 1) THP-1 cell lysate or (Lane 2) 1X PBS (negative control) using ab178688 at a 1/10 dilution for IP and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.
All lanes:
Immunoprecipitation - Anti-STARD5 antibody [EPR13545(B)] (ab178688)

Predicted band size: 24 kDa



Western blot - Anti-STARD5 antibody [EPR13545(B)] (ab178688)

All lanes:
Western blot - Anti-STARD5 antibody [EPR13545(B)] (ab178688) at 1/1000 dilution

Lane 1:
HepG2 cell lysate at 10 µg

Lane 2:
293T (Human embryonic kidney epithelial cell) cell lysate at 10 µg

Lane 3:

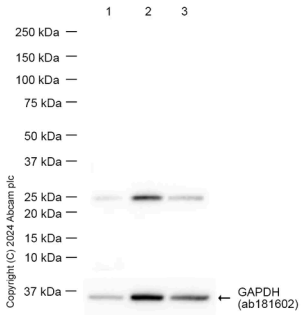
THP-1 lysate at 10 µg

Lane 4:
Human fetal liver tissue lysate at 10 µg

Lane 5:
Human fetal kidney tissue lysate at 10 µg

Lane 6:
HL-60 lysate at 10 µg

Predicted band size: 24 kDa



Western blot - Anti-STARD5 antibody [EPR13545(B)] (ab178688)

All lanes:
Western blot - Anti-STARD5 antibody [EPR13545(B)] (ab178688) at 1/1000 dilution

Lane 1:
HEK-293 (Human embryonic kidney epithelial cell) nuclear lysate at 20 µg

Lane 2:
HEK-293 (Human embryonic kidney epithelial cell) cytoplasm lysate at 20 µg

Lane 3:
HEK-293 (Human embryonic kidney epithelial cell) membrane lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Exposure time: 3s

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