abcam

ab110283

Anti-DCXR antibody [4G4AF5]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.5 Preservative: 0.02% Sodium azide Constituents: HEPES buffered saline
Form	Liquid
Clonality	Monoclonal
Clone number	4G4AF5
Purification technique	Affinity purification
Light chain type	kappa
Purification notes	The antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by affinity purification. Purity near homogeneity as judged by SDS-PAGE. Purity >95% by SDS-PAGE.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1 µg/mL
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

WB

Tested

Species	Human
Dilution info	1 µg/mL
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	4 µg/mL
Notes	-

Target data

See full target information DCXR

Function Catalyzes the NADPH-dependent reduction of several pentoses, tetroses, trioses, alpha-dicarbonyl compounds and L-xylulose (PubMed:11882650, PubMed:19337691, PubMed:40737316). Can use both NAD and NADP as cosubstrate but shows higher activity with NADP (PubMed:11882650). Participates in the uronate cycle of glucose metabolism (PubMed:11882650). May play a role in the water absorption and cellular osmoregulation in the proximal renal tubules by producing xylitol, an osmolyte, thereby preventing osmolytic stress from occurring in the renal tubules (PubMed:11882650).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

Want a custom formulation?
This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com

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

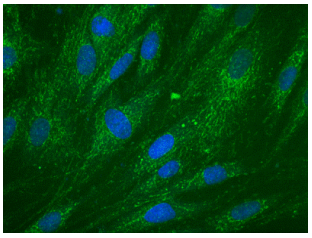
We do not recommend this combination. It is not covered by our product promise.

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.

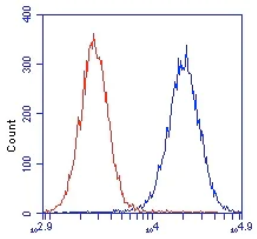
3 product images



Immunocytochemistry/ Immunofluorescence - Anti-DCXR antibody [4G4AF5] (ab110283)

DCXR Immunocytochemistry/ Immunofluorescence staining using mouse Anti-DCXR antibody

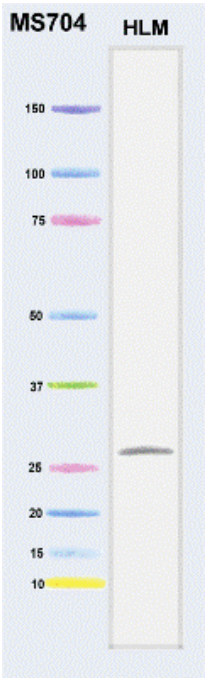
Immunocytochemistry image of ab110283 stained Human HDFn cells. The cells were paraformaldehyde fixed (4%, 20 min) and Triton X-100 permeabilized (0.1%, 15min). The cells were incubated with ab110283 at 4 µg/ml for 2h at room temperature or over night at 4°C. The secondary antibody was (green) AlexaFluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. 10% Goat serum was used as the blocking agent for all blocking steps. DAPI was used to stain the cell nuclei (blue). Target protein locates mainly in the cell membrane.



Flow Cytometry - Anti-DCXR antibody [4G4AF5] (ab110283)

DCXR Flow Cytometry staining using mouse Anti-DCXR antibody

HL-60 cells were stained with 1 µg/mL ab110283 (blue) or an equal amount of an isotype control antibody (red) and analyzed by flow cytometry.



Western blot - Anti-DCXR antibody [4G4AF5] (ab110283)

DCXR Western blot staining of Human liver mitochondria using mouse Anti-DCXR antibody

All lanes:
Western blot - Anti-DCXR antibody [4G4AF5] (ab110283) at 1 µg/mL

All lanes:
Human liver mitochondria at 20 µg

Secondary

All lanes:
Goat anti-mouse conjugated to AP

Predicted band size: 26 kDa

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