L-xylulose reductase (DCXR) monoclonal antibody

Cat. no. A21996

Components:	100 µg monoclonal antibody
Lot no.:	See product label
Clone/PAD:	4G4AF5
Isotype:	Mouse IgG1, κ
Gene ID:	51181
Gene Symbol:	DCXR
Alternative Names:	L-xylulose reductase, XR, Carbonyl reductase II, Dicarbonyl/L-xylulose reductase, Kidney dicarbonyl reductase, kiDCR, Sperm surface protein P34H, DCR, HCR2, P34H, HCRII, KIDCR, SDR20C1
Concentration:	1 mg/mL in Hepes-Buffered Saline (HBS) with 0.02% sodium azide as a preservative
mAb PURITY:	Near homogeneity as judged by SDS-PAGE. The antibody was produced *in vitro* using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
Reactivity:	Human
Immunogen:	Human liver mitochondria
Validated Applications:	Western blotting, Immunoprecipitation, Immunocytochemistry, In-Cell ELISA
Suggested Working Concentration:	1 µg/mL for Western blotting (This is a starting working concentration. The optimal antibody concentration should be determined empirically for each specific application.)
Storage:	Store at 2–8°C. Do not freeze.
Expiration Date:	See product label.

Target Background:

DCXR encodes homotetrameric protein that catalyzes the diacetyl reductase and L-xylulose reductase reactions. The protein may play a role in the uronate cycle of glucose metabolism and in the cellular osmoregulation in the proximal renal tubules. Two transcript variants encoding different isoforms have been found for this gene.

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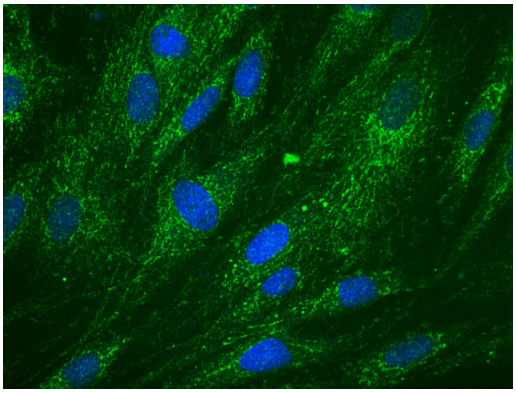
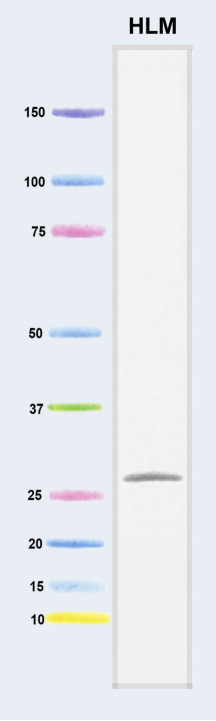


Immunocytochemistry image of L-xylulose reductase (DCXR) monoclonal antibody. Fibroblast cells grown on slides were fixed in 4% paraformaldehyde for 20 minutes and then permeabilized with 0.1% Triton® X-100 for 15 minutes. The cells were incubated with 1 µg/mL of the antibody overnight at 4°C. Alexa Fluor® 488 goat anti-mouse IgG (H+L) was used as a secondary antibody at a 1:1,000 dilution for 1 hour (green). 10% Goat serum was used as the blocking agent for all blocking steps. The cell nuclei were counterstained with DAPI (blue).



Western Blot image of L-xylulose reductase (DCXR) monoclonal antibody. Samples were separated by SDS-PAGE (gradient gel, 10–20%). The bands were transferred to a PVDF membrane and incubated with the primary antibody at the recommended working concentration. AP-conjugated GAM secondary antibodies were used at a 1:3,000 dilution for detection and the signal was developed with AP development kit.