

## L-xylulose reductase (DCXR) monoclonal antibody

Cat. no. A21996

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

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### 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.

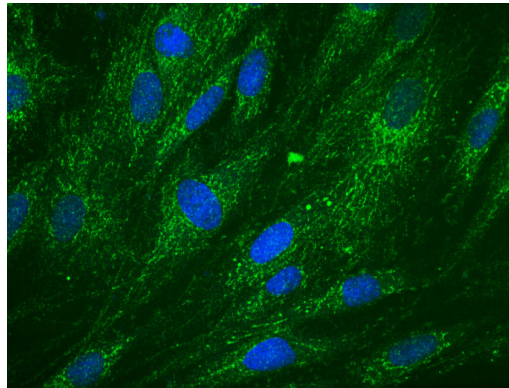


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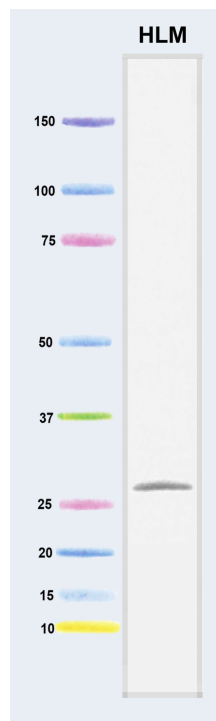
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Life Technologies Corporation • 5791 Van Allen Way • Carlsbad • CA 92008 • Tel: 800.955.6288 • E-mail: [techsupport@invitrogen.com](mailto:techsupport@invitrogen.com)  
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**Immunocytochemistry image 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.

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