Alpha-ketoglutarate dehydrogenase (OGDH) subunit E2 monoclonal antibody

Cat. no. A21995

Components:	100 µg monoclonal antibody
Lot no.:	See product label
Clone/PAD:	9F4BD5
Isotype:	Mouse IgG1
Gene ID:	4967
Gene Symbol:	OGDH
Alternative Names:	2-oxoglutarate dehydrogenase, mitochondrial; oxoglutarate dehydrogenase complex component E1; OGDC-E1; Alpha-ketoglutarate dehydrogenase; E1k; OGDC; AKGDH
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:	Purified OGDH from porcine heart, purified GLUD from bovine liver
Validated Applications:	Immunocytochemistry, Western blotting, In-Cell ELISA
Suggested Working Concentration:	1 µg/mL for immunocytochemistry, 0.25 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:

This gene encodes one subunit of the 2-oxoglutarate dehydrogenase complex, which catalyzes the overall conversion of 2-oxoglutarate (alpha-ketoglutarate) to succinyl-CoA and CO(2) during the Krebs cycle. The protein is located in the mitochondrial matrix and uses thiamine pyrophosphate as a cofactor. Alternative splicing of the gene results in multiple transcript variants encoding distinct isoforms.

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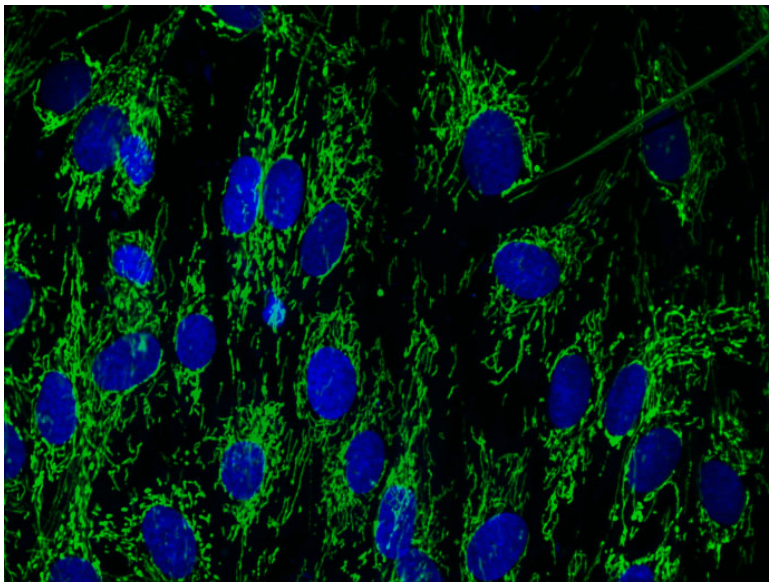

Immunocytochemistry image of Alpha-ketoglutarate dehydrogenase (OGDH) subunit E2 monoclonal antibody. Human HDFn cells were fixed in 4% paraformaldehyde for 20 minutes and then permeabilized with 0.1% Triton® X-100 for 15 minutes. The cells were incubated with 1 µg/mL of the antibody overnight at 4°C. 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). Target protein locates mainly in mitochondria.