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Product no AS12 1874

Anti-DGAT2A | Acyl-CoA: Diacylglycerol acyltransferase

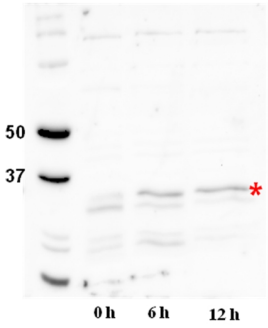
Product information

Immunogen	recombinant CrDGAT2A, overexpressed in *E.coli*, missing transmembrane domains, PID 536226, also annotated as *DGTT1* UniProt: A8JGY1
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	100 µl
Reconstitution	For reconstitution add 100 µl of sterile water
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	kDa
Confirmed reactivity	*Chlamydomonas reinhardtii*
Predicted reactivity	*Chlamydomonas reinhardtii*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Liu et al. (2016). A simple and reproducible non-radiolabeled in vitro assay for recombinant acyltransferases involved in triacylglycerol biosynthesis. J Appl Phycol (2016). doi:10.1007/s10811-016-0949-6. Wase et al. (2015). Phenotypic screening identifies Brefeldin A/Ascotoxin as an inducer of lipid storage in the algae Chlamydomonas reinhardtii. Algal Research, Volume 11, September 2015, Pages 74–84.

application example



Total proteins (containing 30 ug) from *Chlamydomonas reinhardtii* cells grown for the indicated times in N-deprived medium extracted with lysis buffer (50 mM Tris-HCl, pH 6.8, containing 2% SDS and 10 mM EDTA and a protease inhibitor cocktail) were separated on 12 % SDS-PAGE and transferred onto a nitrocellose blot over night at 4°C. Blots were blocked with blocking buffer (5% (w/v) non-fat dry milk powder in TBS-T) for 2 hrs at room temperature (RT) with agitation. Blots were incubated in the primary antibody (CrTMDGAT2A) was used at a dilution of 1:1000 over night at 4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then whashed 5 times for 15 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:5000 in the same buffer for 1h at RT with agitation. The blot was washed as above and developed for 5 min with Chemiluminescence detection kit according to the manufacturers instructions. An imaging system (ChemiDoc XRS; Bio-Rad) was used to quantitatively and qualitatively analyze protein blot. Exposure time was 30 seconds.

Courtesy Dr. Yantao Li, The University of Maryland, USA