## For Research Use Only Recombinant Mouse ACBP/DBI protein (rFc Tag) (HPLC verified)



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## Catalog Number: Eg2462

Basic Information	Species: Mouse	<b>Purity:</b> >90 %, SDS-PAGE >90%, SEC-HPLC	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE >90%, SEC-HPLC		
	<mark>Endotoxin Level:</mark> <0.1 EU/μg protein, LAL method		
	Source: HEK293-derived Mouse ACBP protein Met1-Ile87 (Accession# P31786) with a rabbit IgG Fc tag at the N-terminus.		
	GenelD: 13167		
	Accession: P31786		
	Predicted Molecular Mass: 37.2 kDa		
	SDS-PAGE: 35-40 kDa, reducing (R) conditions		
	Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
<b>Biological Activity</b>	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.		
	<ul> <li>Until expiry date, -20°C to</li> <li>3 months, -20°C to -80°C</li> </ul>	o -80 $^\circ\!\!\!\!^\circ$ as lyophilized proteins. under sterile conditions after reconsti	tution.
	<b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before	e opening. Reconstitute at 0.1-0.5 mg/n	nL in sterile water.
Background	Acyl coenzyme A binding protein (ACBP), also known as diazepam-binding inhibitor (DBI), is a phylogenetically ancient protein present in some eubacteria and the entire eukaryotic radiation. In several eukaryotic phyla, ACBP/DBI transcends its intracellular function in fatty acid metabolism because it can be released into the extracellular space.Indeed, autophagy is tied to the atypical secretion of this leaderless protein that is predominantly present in the cytosol of nucleated cells. Once released into the extracellular space, ACBP/DBI then acts on gamma-aminobutyric acid (GABA) receptors to inhibit autophagy via autocrine, paracrine, and neuroendocrine pathways.		
References	1.Montégut, Léa et al. (2023) Aging 2.Motiño, Omar et al. (2022) Proc N 3.Alquier, Thierry et al. (2021) Trer	g Cell.22(9):e13910. Iatl Acad Sci U S A. 119(41):e220734411 Ids Endocrinol Metab. 32(11):890-903.	9.
Synonyms	ACBP, Acyl-CoA-binding protein, D	)Bl, Diazepam-binding inhibitor, Endoze	pine

## Selected Validation Data





Purity of Recombinant Mouse ACBP was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

The purity of Mouse ACBP/DBI was greater than 90% as determined by SEC-HPLC.

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