

UCP2 Monoclonal antibody

Catalog Number: 66700-1-Ig 1 Publications

Basic Information

Catalog Number: 66700-1-Ig	GenBank Accession Number: BC011737	Purification Method: Protein A purification
Size: 2000 µg/ml	GeneID (NCBI): 7351	CloneNo.: 2B4B1
Source: Mouse	UNIPROT ID: P55851	Recommended Dilutions: WB 1:1000-1:4000
Isotype: IgG3	Full Name: uncoupling protein 2 (mitochondrial, proton carrier)	
Immunogen Catalog Number: AG19361	Calculated MW: 33 kDa	
	Observed MW: 28 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls:
Cited Applications: WB	WB: Jurkat cells, human adipose tissue, human skeletal muscle tissue
Species Specificity: Human	
Cited Species: human	

Background Information

UCP2 (uncoupling protein 2) is a member of the mitochondrial carrier protein super family located in the mitochondrial inner membrane. The UCPs differ greatly in tissue distribution: UCP1 is expressed only in brown adipose; UCP3 preferentially in skeletal muscle, brown adipose and heart; UCP4 and UCP5 mainly in the nervous system (18167556). In contrast, UCP2 has a broad distribution and is implicated in a wide range of pathophysiological processes, including diabetes and cancer. This antibody detect a band around 28-33 kDa corresponding to UCP2 protein in mouse liver, skeletal muscle and pancreas. Some upper and lower bands also were observed due to the dimer formation and degradation of the UCP2 protein (20103532). This antibody was raised against the full-length UCP2 protein and may cross-react with UCP3. It is notable that UCP2 is known to have a very short half-life less than 1 hour (17240372). It is strongly recommended that fresh-made lysate be used for western blot assays.

Notable Publications

Author	Pubmed ID	Journal	Application
Kexin Sun	38626646	Phytomedicine	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

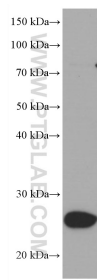
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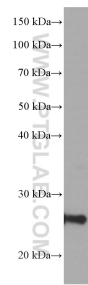
Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 66700-1-Ig (UCP2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



human adipose tissue were subjected to SDS PAGE followed by western blot with 66700-1-Ig (UCP2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



human skeletal muscle tissue were subjected to SDS PAGE followed by western blot with 66700-1-Ig (UCP2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.