



RABBIT ANTI-HUMAN UNCOUPLING PROTEIN 3 AFFINITY PURIFIED POLYCLONAL ANTIBODY

CATALOG NUMBER:	AB3046	QUANTITY:	50 µg
LOT NUMBER:		CONCENTRATION:	1.0 mg/mL
SPECIFICITY:	Uncoupling Protein 3 (UCP3), human. It is expected that the antibody will recognize both the long and short forms (30-33 kD & 24-27 kD) however splice variants are expected and precise reactivity profile has yet to be determined.		
BACKGROUND:	Human UCP3 long form (UCP3L) is a 312 aa mitochondrial uncoupling protein (1,2). It is only 57% and 73% homologous with human UCP1 and UCP2 respectively. Like other UCPs, UCP3 is predicted to contain 6 transmembrane domains. The UCP3S lacks the 6th transmembrane domain and is only 275 aa long (2). UCP3 has preferential expression in muscle and it is unaffected by cold acclimation.		
IMMUNOGEN:	14 amino acid peptide sequence mapping near the C-terminus of human UCP3 (1), Catalog number AG769. The UCP32 peptide has no significant homology with UCP1 or UCP2.		
APPLICATIONS:	<u>Western Blotting:</u> 1-10 µg/mL using Chemiluminescence technique. <u>Immunohistochemistry:</u> 2-20 µg/mL on formaldehyde fixed tissue. <u>ELISA:</u> 1:10,000-1:100,000 using 50-100 ng UCP32 control peptide/well. Optimal working dilutions must be determined by end user.		
SPECIES REACTIVITY:	The antibody has not yet been tested for cross-reactivity to other species. The sequence used for immunization shows 100% homology with porcine and canine and 92% homology to mouse, rat and bovine UCP3.		
FORMAT:	Affinity purified immunoglobulin.		
PRESENTATION:	Liquid in PBS with 0.1% BSA		
STORAGE/HANDLING:	Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.		
REFERENCES:	(1) <i>FEBS Letters</i> (1997) 408 :39-42 (2) <i>BBRC</i> (1997) 235 :79-82		

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION**

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