



## RABBIT ANTI-MOUSE UNCOUPLING PROTEIN 2 AFFINITY PURIFIED POLYCLONAL ANTIBODY

<b>CATALOG NUMBER:</b>	AB3042	<b>QUANTITY:</b>	50 µg
<b>LOT NUMBER:</b>		<b>CONCENTRATION:</b>	1.0 mg/mL
<b>SPECIFICITY:</b>	Uncoupling Protein 2 (UCP2), mouse.  Mouse UCP2 is a 309 amino acid mitochondrial uncoupling protein (1). It is only 59% homologous with UCP1 found in brown adipose tissues. Mouse UCP2 (chromosome 7) has approximately 95% homology with human UCP2 located on chromosome 11 (1). UCP2 has wide tissue distribution in mouse tissues (brain, kidney, liver, brown adipose tissue, heart, and muscle). UCP2 may play a critical role in energy balance, body weight, and thermoregulation (1,2).		
<b>IMMUNOGEN:</b>	14 aa peptide sequence at the C-terminus of the mouse UCP2 (1). The peptide has no significant homology with UCP1		
<b>APPLICATIONS:</b>	<u>Western Blotting:</u> 1-10 µg/mL using Chemiluminescence technique. <u>Immunohistochemistry:</u> Not tested. It is suggested that the antibody be used at 2-20µg/mL on formaldehyde fixed tissue. <u>ELISA:</u> 1:10,000-1:100,000; using 50-100 ng UCP2 control peptide/well.		
<b>SPECIES REACTIVITY:</b>	The antibody has not yet been tested for cross-reactivity to other species. The sequence used for immunization shows 92% homology to rat and hamster and 86% homology to human, canine and porcine UCP2.		
<b>FORMAT:</b>	Affinity purified immunoglobulin.		
<b>PRESENTATION:</b>	Liquid in PBS with 0.1% BSA		
<b>STORAGE/HANDLING:</b>	Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.		
<b>REFERENCES:</b>	(1) <i>Nature Genetics</i> (1997) <b>15</b> :269-272 (2) <i>Nature Genetics</i> (1997) <b>15</b> :223-224 (3) <i>FEBS Letters</i> (1997) <b>408</b> :39-42		

**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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