



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

<b>CATALOG NO:</b>	AB3226
<b>LOT NUMBER:</b>	
<b>QUANTITY:</b>	50 µg
<b>CONCENTRATION:</b>	1.0 mg/mL
<b>SPECIFICITY:</b>	Uncoupling Protein 2 (UCP2), human.
<b>BACKGROUND:</b>	Human UCP2 is a 309 amino acid mitochondrial uncoupling protein (1). It is only 59% homologous with UCP1 found in brown adipose tissues. UCP2 has wide tissue distribution in 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>	13 amino acid peptide sequence near the 3 <sup>rd</sup> and 4 <sup>th</sup> transmembrane domain of human UCP2 (1). The peptide has no significant homology with UCP1, UCP3 or UCP4 (3).
<b>APPLICATIONS:</b>	<p><u>Western Blotting:</u> 1-10 µg/mL using Chemiluminescence technique.</p> <p><u>Immunohistochemistry:</u> Has not been tested. It is recommended that you use 2-20 µg/mL on formaldehyde fixed tissue.</p> <p><u>ELISA:</u> 1:10,000-1:100,000; using 50-100 ng UCP2 control peptide/well. Optimal working dilutions must be determined by end user.</p>
<b>SPECIES REACTIVITIES:</b>	Human. The antibody has not yet been tested for cross-reactivity to other species. The sequence used for immunization shows 100% homology to mouse and rat UCP2 and 92% homology with canine, porcine and bovine.
<b>FORMAT:</b>	Affinity purified immunoglobulin.
<b>PRESENTATION:</b>	Liquid in PBS with 0.1% BSA as stabilizer and 0.05% sodium azide.
<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>RELATED REFERENCES:</b>	<ol style="list-style-type: none"><li>1) Fleury, C. et al., <i>Nature Genetics</i> (1997) <b>15</b>:269-272; Gimeon RE et al., <i>Diabetes</i> (1997) <b>46</b>:900-906.</li><li>2) Flier JF, and Lowell, BB., <i>Nature Genetics</i> (1997) <b>15</b>:223-224</li><li>3) Boss, O., et al., <i>FEBS Letters</i> (1997) <b>408</b>:39-42</li></ol>



**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  $\mu$ L 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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