



**RABBIT ANTI-MONOCARBOXYLATE TRANSPORTER 4 (MCT4)
AFFINITY PURIFIED
POLYCLONAL ANTIBODY**

CATALOG NUMBER:	AB3314P (Formerly AB3546P)
LOT NUMBER:	
QUANTITY:	50 µg
CONCENTRATION:	1.0 mg/mL
SPECIFICITY:	Recognizes rat Monocarboxylate Transporter 4 (MCT4/MOT4/ SLC16A3). The immunogen shows no significant sequence homology with other MCT. MCT4 is prominently expressed in skeletal muscle and other cells with high glycolytic rate such as tumors cells and white blood cells suggesting an important role in lactic acid efflux. Note: According to new nomenclature, the old MCT3 has now been reclassified as MCT4. Consult Halestrap and Price (1999) <i>Biochem. J.</i> 343:281-299.
IMMUNOGEN:	A 19 amino acid peptide sequence near the C-terminus of rat/human/mouse MCT4 (1).
APPLICATIONS:	Western blot: 1-5 µg/mL using ECL. Immunohistochemistry: not tested. It is recommended that the antibody be tried at 5-10 µg/mL on paraformaldehyde fixed tissue. ELISA: 1:10,000-1:100,000 using 50-100 ng control peptide (Catalog number AG304) per well. Optimal working dilutions must be determined by the end user.
SPECIES REACTIVITIES:	Rat. The immunogen sequence is 100% conserved in human and mouse and 78% conserved in chicken. Reactivity with other species has not been confirmed.
FORMAT:	Affinity purified immunoglobulin.
PRESENTATION:	Liquid in PBS containing 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.
RELATED REFERENCES:	1) Wilson MC et al (1998) <i>J. Biol. Chem.</i> 273 :15920-15926; Price NT et al (1998) <i>Biochem. J.</i> 329 :321-328 (review); Halestrap AP and Price NT (1999) <i>Biochem J.</i> 343 :281-299 (review).



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 μ 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.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC
PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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