

## Datasheet for ABIN286000 **anti-SLC25A14 antibody**



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### Overview

Quantity:	100 µg
Target:	SLC25A14
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC25A14 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

### Product Details

Immunogen:	UCP5 antibody was raised in rabbit using a 16 amino acid peptide from rat UCP5 as the immunogen.
Isotype:	IgG
Cross-Reactivity (Details):	UCP5 may be alternatively spliced to produce at least 3 transcripts: UCP5L has a unique 22-aa unique N-terminal sequence, UCP5S is missing 3 aa (23-25 aa) and UCP5S has 31 aa insertion between TM II-IV. The UCP5 sequence is conserved in all 3 isoforms in rat and mouse UCP5. It is 94 % conserved in human UCP5/BMCP1. UCP5 has no appreciable homology with UCP1-4.
Purification:	Affinity chromatography purified

### Target Details

Target:	SLC25A14
Alternative Name:	UCP5 ( <a href="#">SLC25A14 Products</a> )

## Target Details

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**Background:** Uncoupling proteins (UCP1-5) are a family of mitochondria transport proteins that play a critical role in thermoregulatory heat production and maintenance of basal metabolic rate. UCP3 is predicted to contain 6 transmembrane domains. UCP5 or Brain Mitochondrial Carrier Protein 1 or BMCP1 (human 322 aa, chromosome Xq24, ~35% identity with UCP1-3) is mainly expressed in the brain and testis.

**Pathways:** [Proton Transport](#)

## Application Details

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**Application Notes:** ELISA: 1:10,000-1:100,000, WB: 1-10 µg/mL  
Optimal conditions should be determined by the investigator.

**Comment:** UCP5 Blocking Peptide, catalog no. 30R-AU004, is also available for use as a blocking control in assays to test for specificity of this UCP5 antibody

**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** Reconstitute in PBS to a concentration of 1 mg/mL. Do not dilute further until ready to use.

**Concentration:** Lot specific

**Buffer:** Affinity purified IgG lyophilized from PBS with 0.1 % BSA, and 0.05 % NaN<sub>3</sub>.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

**Handling Advice:** Avoid repeated freeze/thaw cycles.  
Dilute only prior to immediate use.

**Storage:** 4 °C/-20 °C

**Storage Comment:** Store at 4 °C for short term storage. Aliquot and store at -20 °C for long term storage.