

**Mouse Sik2 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17441c**

**Specification**

**Mouse Sik2 Antibody (Center) - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | WB,E                        |
| Primary Accession | <a href="#">Q8CFH6</a>      |
| Other Accession   | <a href="#">NP_848825.2</a> |
| Reactivity        | Mouse                       |
| Host              | Rabbit                      |
| Clonality         | Polyclonal                  |
| Isotype           | Rabbit Ig                   |
| Calculated MW     | 104198                      |
| Antigen Region    | 606-633                     |

**Mouse Sik2 Antibody (Center) - Additional Information**

**Gene ID** 235344

**Other Names**

Serine/threonine-protein kinase SIK2,  
Salt-inducible kinase 2, SIK-2,  
Serine/threonine-protein kinase SNF1-like  
kinase 2, Sik2, Snf1lk2

**Target/Specificity**

This Mouse Sik2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 606-633 amino acids from the Central region of mouse Sik2.

**Dilution**

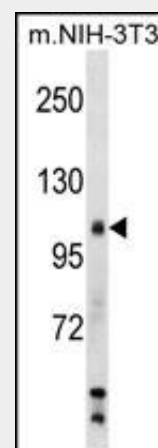
WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



Mouse Sik2 Antibody (Center) (Cat. #AP17441c) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the Sik2 antibody detected the Sik2 protein (arrow).

**Mouse Sik2 Antibody (Center) - Background**

Phosphorylates 'Ser-789' of IRS1 in insulin-stimulated adipocytes, potentially modulating the efficiency of insulin signal transduction. Inhibits CREB activity by phosphorylating and repressing TORCs, the CREB-specific coactivators.

**Mouse Sik2 Antibody (Center) - References**

- Trivedi, C.M., et al. Dev. Cell 19(3):450-459(2010)
- Muraoka, M., et al. Am. J. Physiol. Endocrinol. Metab. 296 (6), E1430-E1439 (2009) :
- Du, J., et al. Obesity (Silver Spring) 16(3):531-538(2008)
- Katoh, Y., et al. FEBS J. 273(12):2730-2748(2006)
- Horiike, N., et al. J. Biol. Chem. 278(20):18440-18447(2003)

**Precautions**

Mouse Sik2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Mouse Sik2 Antibody (Center) - Protein Information**

**Name** Sik2

**Synonyms** Snf1k2

**Function**

Phosphorylates 'Ser-789' of IRS1 in insulin-stimulated adipocytes, potentially modulating the efficiency of insulin signal transduction. Inhibits CREB activity by phosphorylating and inhibiting activity of TORCs, the CREB-specific coactivators, like CRTC2/TORC2 and CRTC3/TORC3 in response to cAMP signaling (PubMed:<a href="http://www.uniprot.org/citations/29211348" target="\_blank">29211348</a>).

**Cellular Location**

Cytoplasm.

**Tissue Location**

Present in both white and brown adipose tissues with levels increasing during adipocyte differentiation. Lower levels observed in the testis.

**Mouse Sik2 Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)