

SNARK/NUAK2 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M	Endogenous	70	Rabbit	#Q9H093	81788

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SNARK/NUAK2 Antibody detects endogenous levels of total SNARK/NUAK2 protein.

Species predicted to react based on 100% sequence homology

Human, Rat

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human SNARK/NUAK2. Antibodies are purified by protein A and peptide affinity chromatography.

Background

SNARK was identified as an SNF1/AMPK-related kinase and member of the AMPK catalytic subunit family (1,2). This enzyme was separately identified as a TNF α -induced SNF1-like kinase 2 (NUAK2) (3). The kinase activity of SNARK/NUAK2 is increased by AMP and AICAR (1). SNARK/NUAK2 activity is regulated by a variety of cellular stresses such as endoplasmic reticulum (ER) stress and oxidative stresses (4), suggesting that SNARK/NUAK2 is a signaling molecule involved in the cell stress response (4).

Background References

1. Lefebvre, D.L. et al. (2001) *Biochem J* 355, 297-305.
2. Suzuki, A. et al. (2003) *Biochem Biophys Res Commun* 311, 156-61.
3. Yamamoto, H. et al. (2008) *Biochem Biophys Res Commun* 365, 541-7.
4. Lefebvre, D.L. and Rosen, C.F. (2005) *Biochim Biophys Acta* 1724, 71-85.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

M: Mouse

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