

Anti-Phospho-CAMKK2 (S511) Antibody

Catalog Number: P03048

About CAMKK2

CAMKK2, Calcium/calmodulin-dependent protein kinase kinase 2, is an enzyme that in humans is encoded by the CAMKK2 gene. The product of this gene belongs to the serine/threonine-specific protein kinase family, and to the Ca⁺⁺/calmodulin-dependent protein kinase subfamily. This protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade by phosphorylating the downstream kinases CaMK1 and CaMK4. CaMKK2 regulates production of the appetite stimulating hormone neuropeptide Y and functions as an AMPK kinase in the hypothalamus. It also has an important role in the development of hyperalgesia and tolerance to opioid analgesic drugs, through reduction in downstream signalling pathways and mu opioid receptor downregulation. Inhibition of CaMKK2 in mice reduces appetite and promotes weight loss.

Overview

Product Name	Anti-Phospho-CAMKK2 (S511) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Phospho-CAMKK2 (S511) Antibody catalog # P03048. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q96RR4

Technical Details

Immunogen	A synthesized peptide derived from human CaMKK2 around the phosphorylation site of Ser511.
Form	Liquid
Concentration	500 ug/ml
Purification	Protein A affinity purified.
Suggested Dilutions	Western blot, 1:500-2000

Immunohistochemistry, 1:50-200

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