
Anti PYK2

Cat #: HM1295
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

PYK2 (proline-rich tyrosine kinase 2, also designated CAKβ or RAFTK) is a member of the FAK family, exhibits 61% sequence identity with FAK over its kinase domain but lacks significant sequence similarity to kinases from other subfamilies. PYK2 is highly expressed in the central nervous system. It undergoes rapid tyrosine phosphorylation and activation in response to increases in the intracellular calcium concentration, nicotinic acetylcholine receptor activation, membrane depolarization, or protein kinase C activation. PYK2 is involved in calcium-induced regulation of ion channels and activation of the map kinase signaling pathway. The protein may represent an important signaling intermediate between neuropeptide-activated receptors or neurotransmitters that increase calcium flux and the downstream signals that regulate neuronal activity.

SPECIFICITY

This antibody specifically reacts with PYK2 of human, mouse and rat origin. Non-crossreactive with FAK.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Weight of PYK2: 116 kDa.
Western blotting positive control: PC-12 cell lysate.

IMMUNOGEN

A synthetic peptide derived from N-terminus of human PYK2 protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

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