

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human Proprotein Convertase 2/PCSK2 in direct ELISAs and, human and mouse Proprotein Convertase 2/PCSK2 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Proprotein Convertase 2/PCSK2 Gly110-Asn638 Accession # P16519
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Proprotein Convertase 2 (PCSK2) is a subtilisin-like serine peptidase that processes proteins into biologically active products in the secretory pathway. Like other furin/kexin family members, PCSK2 cleaves its substrates primarily after sites of paired basic amino acid residues (1). Autoactivation of PCSK2 occurs in a post-Golgi compartment of the secretory system (2). Interaction with the secretory protein 7B2 is required for proper activation of PCSK2 (3). The N-terminal domain of 7B2 stabilizes active PCSK2, and a C-terminal fragment of 7B2 can inhibit PCSK2 activity (4). rhPCSK2 was coexpressed with 7B2 to facilitate activation of the enzyme. PCSK2 is a major proteolytic processing enzyme of the regulated secretory pathway of the neuroendocrine system, where it generates a number of hormones and neuropeptides (5). Products of PCSK2 processing include enkephalins, insulin, somatostatin, dynorphin, and LHRH. Within the region used as an immunogen, human PCSK2 shares 97% aa identity with mouse PCSK2.

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