

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PREB in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PREB Met1-Ser388 Accession # Q9HCU5
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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

PREB (Prolactin regulatory element-binding protein; also mSEC12) is a 45 kDa member of the WD-repeat protein family. Although it is ubiquitously expressed, its expression level varies, tissue-to-tissue. It apparently acts as both a DNA-binding transcription factor, and a catalyst for vesicle formation from the ER. Human PREB is a 417 amino acid (aa) type II transmembrane protein. It is found in the ER and nuclear envelope, and may undergo splicing to generate a transcriptional factor. PREB contains a large cytoplasmic region (aa 1-388) that displays three WD repeats (aa 152-337), and an eight aa luminal domain (aa 410-417). The transcription factor region lies between aa 175-417. Multiple splice forms exist. There is an alternate start site at Met73 that may be accompanied by either a 47 aa substitution for aa 388-417, or a 14 aa substitution for aa 409-417. Over aa 1-388, human PREB shares 88% aa identity with mouse PREB.

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