

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5557

Species Reactivity	Human
	Detects human PREB in direct ELISAs and Western blots.
Specificity	
Source	Polycional Goat IgG
Purification	Antigen Affinity-purified
mmunogen	E. coli-derived recombinant human PREB Met1-Ser388
Formulation	Accession # Q9HCU5 Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.
APPLICATIONS	
	tions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.
	Recommended Sample Concentration
Western Blot	1 μg/mL See Below
kDa	Western blot shows lysates of human tonsil tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human PREB Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5557) followed by HRP-conjugated Anti- Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for PREB at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.
PREPARATION AND	STORAGE
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 lumenal 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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