





PEP12 Recombinant Polyclonal Antibody (7HCLC)

Catalog Number 710037 Product data sheet

Catalog Hambol 110001	
Details	
Size	100 µg
Host/Isotope	Rabbit / IgG
Class	Recombinant Polyclonal
Туре	Antibody
Clone	7HCLC
Immunogen	Protein corresponding to amino acids 1-268 of Yeast Syntaxin
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Yeast
Published species	Yeast, Not Applicable
Tested Applications	Dilution *
Western Blot (WB)	0.1-1 μg/mL
Published Applications	
Western Blot (WB)	See 2 publications below
*Congressed weeking dilutions are given as a guide only. It is recommended	and add that the user litrate the aready at far use in their sure

^{*} Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

This antibody is predicted to react with Yeast based on sequence homology. Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Background/Target Information

Syntaxins belong to a family of SNARE proteins. The yeast Saccharomyces cerevisiae has about 7 genes similar to syntaxin and there are presently 15 types of syntaxin genes in the human genome. In presence of other cytoplasmic proteins like the N-ethylmaleimide-sensitive factor (NSF) and SNAP; synatxins can combine various vesicular transport systems for the exocytic and endocytic pathway. This is very important for the functioning and for bringing about specificity to the vesicular combination process.. The syntaxin protein in yeast is also known as the Pep12 protein. The function of this Pep12 protein in the yeast is to transport vesicles from the Golgi apparatus.

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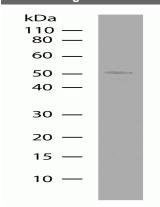
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Product Images For PEP12 Recombinant Polyclonal Antibody (7HCLC)



PEP12 Antibody (710037) in WB

Western blot analysis of recombinant Syntaxin (Yeast) fusion protein (1 ng/lane) using a Syntaxin PEP12 Recombinant Rabbit Polyclonal Antibody (Product # 710037) at a dilution of 1 μ g/mL. NBT/BCIP was used as the substrate (Product # WB7105).

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PubMed References Fo	or PEP12 Recombinant Polyclonal Antibody (7HCLC)
2 Western Blot Reference	es
Species / Dilution	Summary
Not Applicable / 1:1000	710037 was used in western blot to study initiation of autophagy by tethering Atg9-vesicles by the Atg1-kinase complex
	Nature communications (2016; 7:) "The Atg1-kinase complex tethers Atg9-vesicles to initiate autophagy." Author(s):Rao Y,Perna MG,Hofmann B,Beier V,Wollert T PubMed Article URL:http://dx.doi.org/10.1038/ncomms10338
Yeast / Not Cited	710037 was used in Western Blot to elucidate the mechanism by which glycolysis is upregulated under conditions such as hypoxia and high energy demand to promote cell proliferation.
	Cell reports (2017; 20: 895) "Glycolytic Enzymes Coalesce in G Bodies under Hypoxic Stress." Author(s):Jin M,Fuller GG,Han T,Yao Y,Alessi AF,Freeberg MA,Roach NP,Moresco JJ,Karnovsky A,Baba M,Yates JR, Gitler AD,Inoki K,Klionsky DJ,Kim JK PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2017.06.082

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