

PEP12 Recombinant Polyclonal Antibody (7HCLC)

Catalog Number710037

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Yeast
Host/Isotope	Rabbit / IgG	Published species	Yeast, Not Applicable
Class	Recombinant Polyclonal	Tested Applications	Dilution *
Type	Antibody	Western Blot (WB)	0.1-1 µg/mL
Clone	7HCLC	Published Applications	
Immunogen	Protein corresponding to amino acids 1-268 of Yeast Syntaxin	Western Blot (WB)	See 2 publications below
Conjugate	Unconjugated	* 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.	
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.		

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; syntaxins 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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Product Images For PEP12 Recombinant Polyclonal Antibody (7HCLC)

kDa
110 —
80 —
60 —
50 —
40 —

30 —
20 —
15 —
10 —



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 µg/mL. NBT/BCIP was used as the substrate (Product # WB7105).

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PubMed References For PEP12 Recombinant Polyclonal Antibody (7HCLC)

2 Western Blot References

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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