

Datasheet for ABIN6141024
anti-GCN1L1 antibody (AA 2462-2671)



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1 Image

Overview

Quantity:	100 µL
Target:	GCN1L1
Binding Specificity:	AA 2462-2671
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GCN1L1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 2462-2671 of human GCN1L1 (NP_006827.1).
Sequence:	LSAVLQQCLL ADVSGIDWMV RHGRSLALSV AVNVAPGRLC AGRYSSDVQE MILSSATADR IPIAVSGVRG MGFLMRHHIE TGGGQLPAKL SSLFVKCLQN PSSDIRLVAE KMIWWANKDP LPPLDPQAIK PILKALLDNT KDKNTVVRAY SDQAIVNLLK MRQGEEVFQS LSKILDVASL EVLNEVNRRS LKKLASQADS TEQVDDTILT
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

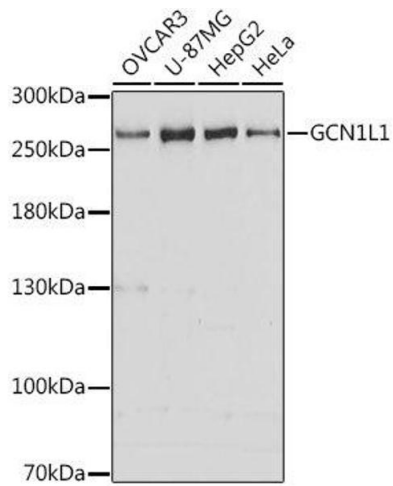
Target:	GCN1L1
Alternative Name:	GCN1L1 (GCN1L1 Products)
Background:	Acts as a positive activator of the EIF2AK4/GCN2 protein kinase activity in response to amino acid starvation. Forms a complex with EIF2AK4/GCN2 on translating ribosomes, during this process, GCN1 seems to act as a chaperone to facilitate delivery of uncharged tRNAs that enter the A site of ribosomes to the tRNA-binding domain of EIF2AK4/GCN2, and hence stimulating EIF2AK4/GCN2 kinase activity. Participates in the repression of global protein synthesis and in gene-specific mRNA translation activation, such as the transcriptional activator ATF4, by promoting the EIF2AK4/GCN2-mediated phosphorylation of eukaryotic translation initiation factor 2 (eIF-2-alpha/EIF2S1 on 'Ser-52', and hence allowing ATF4-mediated reprogramming of amino acid biosynthetic gene expression to alleviate nutrient depletion.,GCN1,GCN1L,GCN1L1,PRIC295,Epigenetics & Nuclear Signaling,GCN1L1
Molecular Weight:	292 kDa
Gene ID:	10985
UniProt:	Q92616

Application Details

Application Notes:	WB,1:500 - 1:2000
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using GCN1L1 antibody.