



Rabbit Anti-C1orf124 polyclonal antibody (CABT-L1088)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	The epitope recognized by this antibody maps to a region between residue 300 to 350 of human Zinc finger RAD18 domain-containing protein C1orf124 using the numbering given in entry Q9H040.2. (GeneID 83932).
Target	C1orf124
Immunogen	Between 300-350
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Affinity purified using an epitope specific to SPRTN immobilized on solid support.
Conjugate	Unconjugated
Applications	WB, IP
Format	Liquid
Size	20 µl
Buffer	Tris-citrate/phosphate buffer, pH 7 to 8
Preservative	0.09% Sodium Azide
Storage	2 - 8° C. 1 year from date of receipt

BACKGROUND

Introduction

SPRTN (SprT-like N-terminal domain) is a protein-coding gene. GO annotations related to this gene include ubiquitin binding and K63-linked polyubiquitin binding. Regulator of UV-induced DNA damage response: acts as a "reader" of ubiquitinated PCNA that enhances RAD18-mediated PCNA ubiquitination and translesion DNA synthesis (TLS). Recruited to sites of UV damage and interacts with ubiquitinated PCNA and RAD18, the E3 ubiquitin ligase that monoubiquitinates PCNA. Facilitates chromatin association of RAD18 and is required for efficient PCNA monoubiquitination, promoting a feed-forward loop to enhance PCNA ubiquitination and translesion DNA synthesis. Acts as a regulator of TLS by recruiting VCP/p97 to sites of DNA damage, possibly leading to extraction of DNA polymerase eta (POLH) by VCP/p97 to prevent excessive translesion DNA synthesis and limit the incidence of mutations induced by DNA damage. Ruijs-Aalfs syndrome (RJALS) [MIM:616200]: A syndrome characterized by genomic instability, progeroid features, and susceptibility toward early onset hepatocellular carcinoma. Note=The disease is caused by mutations affecting the gene represented in this entry. Spartan (SPRTN) is a protein that in humans is encoded by the SPRTN gene. It is involved in DNA repair. The function about SPRTN antigen include DNA binding; K63-linked polyubiquitin binding; metal ion binding; protein binding; ubiquitin binding.

Keywords

SPRTN;SprT-like N-terminal domain;DVC1;PRO4323;Spartan;C1orf124;DDDL1880;dJ876B10.3;sprT-like domain-containing protein Spartan;DNA damage protein targeting VCP