10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

C4orf21 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11267a

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q86YA3
Other Accession	NP_060862.2
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB28876
Calculated MW	236602
Antigen Region	38-66

Additional Information

Gene ID	55345
Other Names	Protein ZGRF1, GRF-type zinc finger domain-containing protein 1, ZGRF1, C4orf21
Target/Specificity	This C4orf21 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 38-66 amino acids from the N-terminal region of human C4orf21.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	C4orf21 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZGRF1
Synonyms	C4orf21

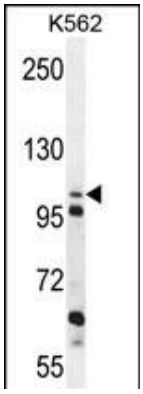
Function

5'-3' DNA helicase which is recruited to sites of DNA damage and promotes repair of replication-blocking DNA lesions through stimulation of homologous recombination (HR) (PubMed:32640219, PubMed:34552057). Promotes HR by directly stimulating RAD51-mediated strand exchange activity (PubMed:32640219). Not required to load RAD51 at sites of DNA damage but promotes recombinational repair after RAD51 recruitment (PubMed:32640219). Also promotes HR by positively regulating EXO1-mediated DNA end resection of double-strand breaks (PubMed:34552057). Required for recruitment of replication protein RPA2 to DNA damage sites (PubMed:34552057). Promotes the initiation of the G2/M checkpoint but not its maintenance (PubMed:34552057). Catalyzes Holliday junction branch migration and dissociation of D-loops and DNA flaps (PubMed:32640219).

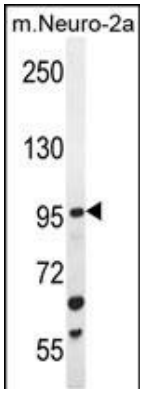
Cellular Location

Nucleus.

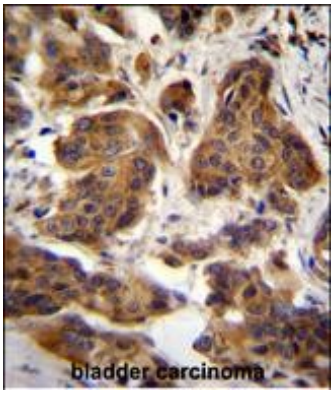
Images



C4orf21 Antibody (N-term) (Cat. #AP11267a) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the C4orf21 antibody detected the C4orf21 protein (arrow).

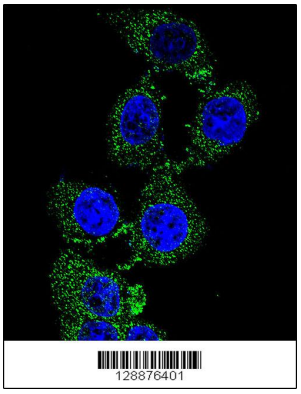


C4orf21 Antibody (N-term) (Cat. #AP11267a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane).This demonstrates the C4orf21 antibody detected the C4orf21 protein (arrow).



C4orf21 Antibody (N-term) (Cat. #AP11267a)immunohistochemistry analysis in formalin fixed and paraffin embedded human bladder carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of C4orf21 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Confocal immunofluorescent analysis of C4orf21



Antibody (N-term)(Cat#AP11267a) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.