

ZGRF1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11267a**Specification**

ZGRF1 Antibody (N-term) - Product Information

Application	WB, IHC-P, IF,E
Primary Accession	Q86YA3
Other Accession	NP_060862.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	38-66

ZGRF1 Antibody (N-term) - 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~~1:50~100

IF~~1:10~50

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

ZGRF1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ZGRF1 Antibody (N-term) - 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](#)).

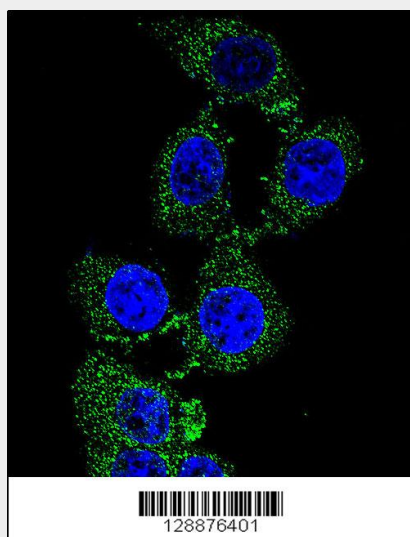
Cellular Location

Nucleus.

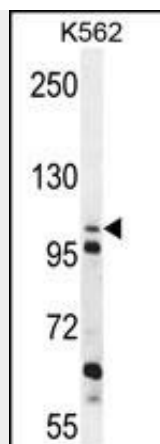
ZGRF1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

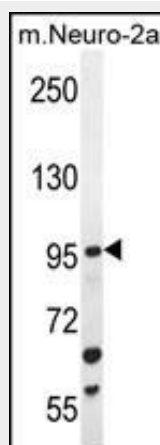
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ZGRF1 Antibody (N-term) - Images

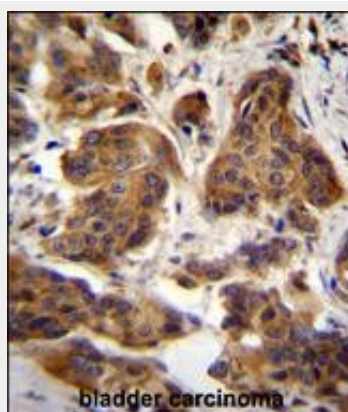
Confocal immunofluorescent analysis of ZGRF1 Antibody (N-term)(Cat#AP11267a) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



ZGRF1 Antibody (N-term) (Cat. #AP11267a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the ZGRF1 antibody detected the ZGRF1 protein (arrow).



ZGRF1 Antibody (N-term) (Cat. #AP11267a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the ZGRF1 antibody detected the ZGRF1 protein (arrow).



ZGRF1 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 ZGRF1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.