

C21orf2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP59450

Specification

C21orf2 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat
Host
Clonality
Calculated MW
Physical State

O43822
Rat
Rabbit
Polyclonal
28 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human C21orf2

Epitope Specificity 1-100/256

Isotype IgG

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SIMILARITY Contains 3 LRR (leucine-rich) repeats.

Contains 1 LRRCT domain. To C.elegans

F09G8.5

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

The smallest of the human chromosomes, 21 makes up about 1.5% of the human genome. Chromosome 21 contains nearly 300 genes and 47 million base pairs. Down syndrome, also known as trisomy 21, is the disease most commonly associated with chromosome 21. Alzheimer's disease, Jervell and Lange-Nielsen syndrome and amyotrophic lateral sclerosis are also associated with chromosome 21. Translocations are found to occur between chromosome 21 and 8, and chromosome 21 and 12, in certain leukemias. The C21orf2 gene product has been provisionally designated C21orf2 pending further characterization.

C21orf2 Polyclonal Antibody - Additional Information

Gene ID 755

Other Names

Cilia- and flagella-associated protein 410 {ECO:0000312|HGNC:HGNC:1260}, C21orf-HUMF09G8.5, Leucine-rich repeat-containing protein 76, YF5/A2, CFAP410 (HGNC:1260)

Dilution

WB~~1:1000<br \><span class</pre>



="dilution_IHC-P">IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

C21orf2 Polyclonal Antibody - Protein Information

Name CFAP410 (<u>HGNC:1260</u>)

Function

Plays a role in cilia formation and/or maintenance (By similarity). Plays a role in the regulation of cell morphology and cytoskeletal organization (PubMed:21834987). Involved in DNA damage repair (PubMed:26290490).

Cellular Location

Mitochondrion. Cytoplasm, cytoskeleton, cilium basal body. Cell projection, cilium, photoreceptor outer segment. Cytoplasm Note=Colocalizes with NEK1 and SPATA7 at the basal body

Tissue Location

Widely expressed (PubMed:26974433, PubMed:9325172). Expressed in the retina (PubMed:26294103)

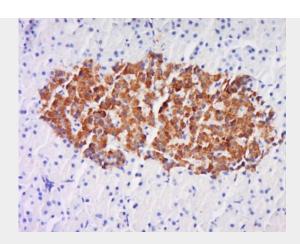
C21orf2 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

C21orf2 Polyclonal Antibody - Images

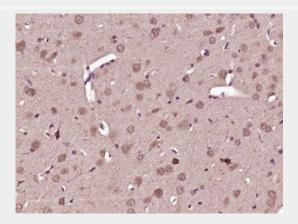




Tissue/cell: Rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

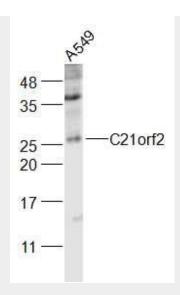
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-C21orf2 Polyclonal Antibody, Unconjugated(bs-9977R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C21orf2) Polyclonal Antibody, Unconjugated (bs-9977R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.





Sample:

A549(Human) Cell Lysate at 30 ug

Primary: Anti-C21orf2 (bs-9977R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 28 kD Observed band size: 27 kD