

Rabbit C9orf142 Polyclonal Antibody | anti-C9orf142 antibody

C9orf142 Antibody

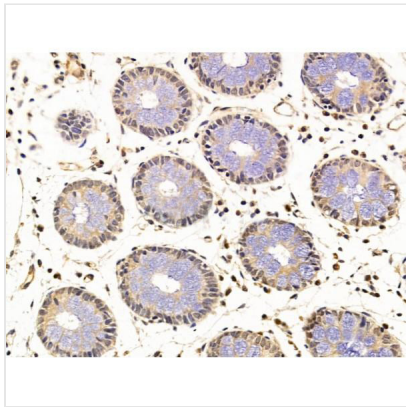
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31238	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(88%)	ELISA

PRODUCT SYNONYMS

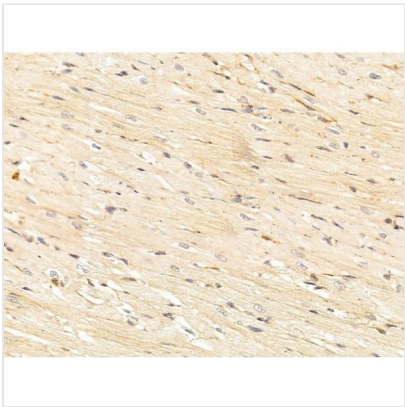
C9orf142; Polyclonal Antibody; C9orf142 Antibody; Chromosome 9 open reading frame 142; C1142_HUMAN; PAXX; Uncharacterized protein C9orf142; XLS; anti-C9orf142 antibody

PRODUCT SPECIFICATIONS

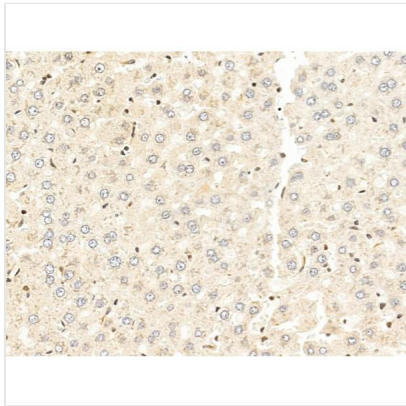
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	C9orf142 Antibody detects endogenous levels of total C9orf142.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	204
Applicable Applications for anti-C9orf142 antibody	ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human C9orf142, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



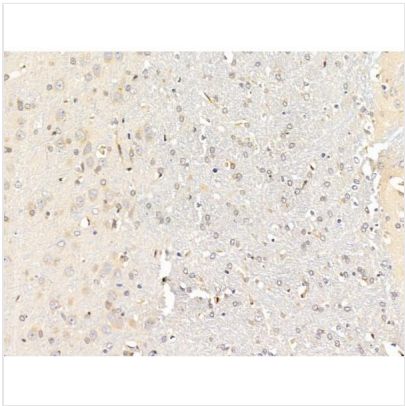
IHC (Immunohistochemistry-Paraffin)
AAA31238 at 1/100 staining Human colorectal cancer and adjacent normal tissues by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



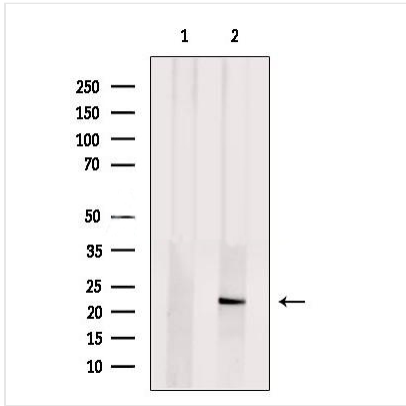
IHC (Immunohistochemistry-Paraffin)
AAA31238 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



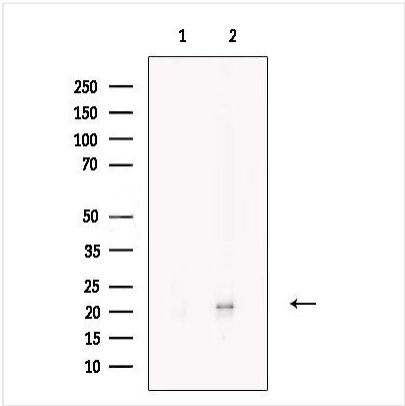
IHC (Immunohistochemistry-Paraffin)
AAA31238 at 1/100 staining Rat liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)
AAA31238 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Å°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using C9orf142 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from RT4, using C9orf142 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-C9orf142 antibody	Function: Involved in non-homologous end joining (NHEJ), a major pathway to repair double-strand breaks in DNA. May act as a scaffold required to stabilize the Ku heterodimer, composed of XRCC5/Ku80 and XRCC6/Ku70, at double-strand break sites and promote the assembly and/or stability of the NHEJ machinery. Subcellular Location: Nucleus. Note: Predominantly localizes to the nucleus. Accumulates at sites of DNA damage generated by laser microirradiation. Subunit Structure: Homodimer. Interacts with the DNA-bound XRCC5/Ku80 and XRCC6/Ku70 heterodimer (Ku complex); the interaction is direct. Associates with the non-homologous end joining (NHEJ) complex which is at least composed of the core proteins XRCC5/Ku80, XRCC6/Ku70, PRKDC/DNA-PKcs, LIG4 and XRCC4. Additional components of the NHEJ complex include NHEJ1/XLF and C9orf142/PAXX. Similarity: The N-terminus (residues 1-113) forms a head domain that is structurally related to those of XRCC4, XLF/NHEJ1, and SASS6.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	39930541
NCBI GeneID	286257
NCBI Accession #	NP_899064.1
NCBI GenBank Nucleotide #	NP_899064.1
UniProt Accession #	Q9BUH6
Molecular Weight	Observed Molecular Weight: (Observed)21kD. Predicted Molecular Weight: (Calculated)22kDa.
NCBI Official Full Name	protein PAXX isoform 2
NCBI Official Synonym Full Names	PAXX non-homologous end joining factor
NCBI Official Symbol	PAXX
NCBI Official Synonym Symbols	XLS; C9orf142
NCBI Protein Information	protein PAXX
UniProt Protein Name	Uncharacterized protein C9orf142
UniProt Gene Name	C9orf142
UniProt Entry Name	CI142_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.