

Rabbit anti-Human OSGIN1 Polyclonal Antibody | anti-OSGIN1 antibody

Anti-OSGIN1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19937	Rabbit	Human	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, ELISA

PRODUCT SYNONYMS

OSGIN1; Polyclonal Antibody; Anti-OSGIN1 Antibody Picoband; heterogeneous nuclear ribonucleoprotein D; Heterogeneous nuclear ribonucleoprotein D0; hnRNP D0; AU-rich element RNA-binding protein 1; HNRNPD; AUF1; HNRPD; anti-OSGIN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-OSGIN1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human IF: 5ug/ml, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human OSGIN1 recombinant protein (Position: M1-Q439).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Binds with high affinity to RNA molecules that contain AU-rich elements (AREs) found within the 3'-UTR of many proto-oncogenes and cytokine mRNAs. Also binds to double- and single-stranded DNA sequences in a specific manner and functions a transcription factor. Each of the RNA-binding domains specifically can bind solely to a single-stranded non-monotonous 5'-UUAG-3' sequence and also weaker to the single-stranded 5'-TTAGGG-3' telomeric DNA repeat. Binds RNA oligonucleotides with 5'-UUAGGG-3' repeats more tightly than the telomeric single-stranded DNA 5'-TTAGGG-3' repeats. Binding of RRM1 to DNA inhibits the formation of DNA quadruplex structure which may play a role in telomere elongation. May be involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. May play a role in the regulation of the rhythmic expression of circadian clock core genes. ly binds to the 3'UTR of CRY1 mRNA and induces CRY1 rhythmic translation. May also be involved in the regulation of PER2 translation.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



IF (Immunofluorescence)

Figure 7. IF analysis of OSGIN1 using anti-OSGIN1 antibody (AAA19937).OSGIN1 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-OSGIN1 Antibody (AAA19937) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IF (Immunofluorescence)

Figure 6. IF analysis of OSGIN1 and Tubulin beta using anti-OSGIN1 antibody (AAA19937) and anti-Tubulin beta antibody (M05613-4).OSGIN1 and Tubulin beta was detected in an immunocytochemical section of T-47D cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-OSGIN1 Antibody (AAA19937) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-OSGIN1 Antibody (AAA19937) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-OSGIN1 Antibody (AAA19937) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-OSGIN1 Antibody (AAA19937) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human T-47D whole cell lysates,Lane 3: human A549 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-OSGIN1 antigen affinity purified polyclonal antibody (#AAA19937) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for OSGIN1 at approximately 53 kDa. The expected band size for OSGIN1 is at 61 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-OSGIN1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-OSGIN1 antibody	Primary Antibodies; Cytokines; Immunology; Innate Immunity; Interleukins
References	1. Huynh, H., Ng, C. Y., Ong, C. K., Lim, K. B., Chan, T. W. M. Cloning and characterization of a novel pregnancy-induced growth inhibitor in mammary gland. Endocrinology 142: 3607-3615, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33695101
NCBI GeneID	29948
NCBI Accession #	NP_892026.1
NCBI GenBank Nucleotide #	NM_182981.2
UniProt Accession #	Q9UJX0; Q52M33; Q86UQ1; Q96S88; Q9BZ70
Molecular Weight	â€" Da
NCBI Official Full Name	oxidative stress-induced growth inhibitor 1
NCBI Official Synonym Full Names	oxidative stress induced growth inhibitor 1

NCBI Official Symbol	OSGIN1
NCBI Official Synonym Symbols	BDGI; OKL38
NCBI Protein Information	oxidative stress-induced growth inhibitor 1
UniProt Protein Name	Oxidative stress-induced growth inhibitor 1
UniProt Gene Name	OSGIN1
UniProt Synonym Gene Names	OKL38; huOKL38

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/osgin1-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-elisa/19937>