

Rabbit Sigma1-receptor/SIGMAR1 Polyclonal Antibody | anti-SIGMAR1 antibody

Anti-Sigma1-receptor/SIGMAR1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19462	Rabbit	Human, Monkey, Mouse, Rat	Western Blot, Immunohistochemistry, ELISA

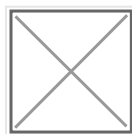
PRODUCT SYNONYMS

Sigma1-receptor/SIGMAR1; Polyclonal Antibody; Anti-Sigma1-receptor/SIGMAR1 Antibody Picoband; anti-SIGMAR1 antibody

PRODUCT SPECIFICATIONS

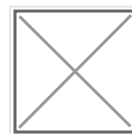
Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-SIGMAR1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Application Notes	WB: 0.1-0.25 ug/ml, Human, Monkey, Mouse IHC-P: 2-5 ug/ml, Human, Mouse, Rat Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Sigma1-receptor/SIGMAR1 recombinant protein (Position: G1-H154).
Preparation and Storage	Store 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.

IMAGES



IHC (Immunohistochemistry)

Figure 6. IHC analysis of Sigma1-Receptor/SIGMAR1 using anti-Sigma1-Receptor/SIGMAR1 antibody (AAA19462). Sigma1-Receptor/SIGMAR1 was detected in a paraffin-embedded section of human liver cancer tissue was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Sigma1-Receptor/SIGMAR1 Antibody (AAA19462) 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 with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of Sigma1-Receptor/SIGMAR1 using anti-Sigma1-Receptor/SIGMAR1 antibody (AAA19462). Sigma1-Receptor/SIGMAR1 was detected in a paraffin-embedded section of human stomach cancer tissue was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Sigma1-Receptor/SIGMAR1 Antibody (AAA19462) 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 with DAB as the chromogen.



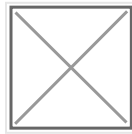
IHC (Immunohistochemistry)

Figure 4. IHC analysis of Sigma1-Receptor/SIGMAR1 using anti-Sigma1-Receptor/SIGMAR1 antibody (AAA19462). Sigma1-Receptor/SIGMAR1 was detected in a paraffin-embedded section of human adenocarcinoma of the right colon tissue was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Sigma1-Receptor/SIGMAR1 Antibody (AAA19462) 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 with DAB as the chromogen.



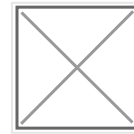
IHC (Immunohistochemistry)

Figure 3. IHC analysis of Sigma1-Receptor/SIGMAR1 using anti-Sigma1-Receptor/SIGMAR1 antibody (AAA19462). Sigma1-Receptor/SIGMAR1 was detected in a paraffin-embedded section of mouse colon 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 2 ug/ml rabbit anti-Sigma1-Receptor/SIGMAR1 Antibody (AAA19462) 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 with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Sigma1-Receptor/SIGMAR1 using anti-Sigma1-Receptor/SIGMAR1 antibody (AAA19462). Sigma1-Receptor/SIGMAR1 was detected in a paraffin-embedded section of rat colon 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 2 ug/ml rabbit anti-Sigma1-Receptor/SIGMAR1 Antibody (AAA19462) 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 with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Sigma1-Receptor/SIGMAR1 using anti-Sigma1-Receptor/SIGMAR1 antibody (AAA19462). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: human A549 whole cell lysates, Lane 6: human COLO-320 whole cell lysates, Lane 7: human U-87MG whole cell lysates, Lane 8: monkey COS-7 whole cell lysates, Lane 9: mouse liver tissue lysates, Lane 10: mouse C2C12 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-Sigma1-Receptor/SIGMAR1 antigen affinity purified polyclonal antibody (#AAA19462) at 0.25 ug/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 Sigma1-Receptor/SIGMAR1 at approximately 25 kDa. The expected band size for Sigma1-Receptor/SIGMAR1 is at 25 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SIGMAR1 antibody	The sigma-1 receptor (sigma1R), one of two sigma receptor subtypes, is a chaperone protein at the endoplasmic reticulum (ER) that modulates calcium signaling through the IP3 receptor. In humans, the sigma1 receptor is encoded by the SIGMAR1 gene. This gene encodes a receptor protein that interacts with a variety of psychotomimetic drugs, including cocaine and amphetamines. The receptor is believed to play an important role in the cellular functions of various tissues associated with the endocrine, immune, and nervous systems. As indicated by its previous name, opioid receptor sigma 1 (OPRS1), the product of this gene was erroneously thought to function as an opioid receptor; it is now thought to be a non-opioid receptor. Mutations in this gene has been associated with juvenile amyotrophic lateral sclerosis 16. Alternative splicing of this gene results in transcript variants encoding distinct isoforms.
Product Categories/Family for anti-SIGMAR1 antibody	Primary Antibodies , Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	22212934
NCBI GeneID	10280
NCBI Accession #	NP_671513.1
NCBI GenBank Nucleotide #	NM_147157.1
UniProt Accession #	Q99720 ; O00673 ; O00725 ; Q0Z9W6 ; Q153Z1 ; Q2TSD1 ; Q53GN2 ; Q7Z653 ; Q8N7H3 ; Q9NXX0 ; D3DRM7
Molecular Weight	25,128 Da

NCBI Official Full Name	sigma non-opioid intracellular receptor 1 isoform 2
NCBI Official Synonym Full Names	sigma non-opioid intracellular receptor 1
NCBI Official Symbol	SIGMAR1
NCBI Official Synonym Symbols	SRBP; ALS16; OPRS1; SR-BP1
NCBI Protein Information	sigma non-opioid intracellular receptor 1; SR-BP; SIG-1R; sigma1R; hSigmaR1; SR31747 binding protein 1; sigma 1-type opioid receptor; aging-associated gene 8 protein
UniProt Protein Name	Sigma non-opioid intracellular receptor 1
UniProt Gene Name	SIGMAR1
UniProt Synonym Gene Names	OPRS1; SRBP; SR-BP; SIG-1R; Sigma1-receptor; Sigma1R; hSigmaR1
UniProt Entry Name	SGMR1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://stage.aaabiotech.com/polyclonal/sigma1-receptor-sigmar1-antibody-western-blot-immunohistochemistry-elisa/19462>