

## Rabbit S1P1 Polyclonal Antibody | anti-S1PR1 antibody

S1P1 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA39556  | Rabbit | Human, Mouse, Rat | Immunohistochemistry, Western Blot, ELISA |

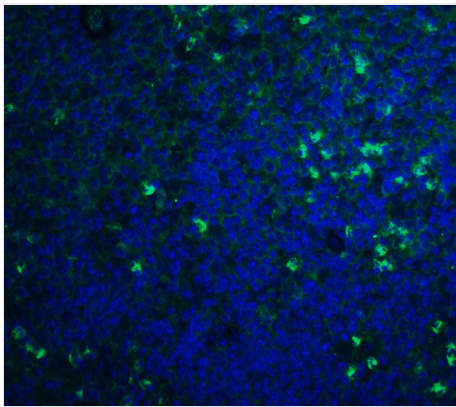
### PRODUCT SYNONYMS

S1P1; Polyclonal Antibody; S1P1 Antibody; EDG1; CD363; ECGF1; EDG-1; CHEDG1; D1S3362; Sphingosine 1-phosphate receptor 1; Endothelial differentiation G-protein coupled receptor 1; S1P receptor 1; sphingosine-1-phosphate receptor 1; anti-S1PR1 antibody

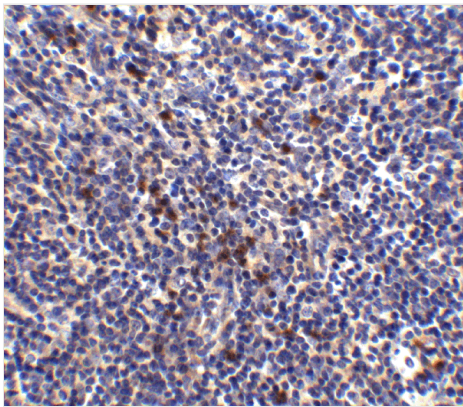
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                     |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                          |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                 |
| Isotype                                         | IgG                                                                                                                                                                                                                                                        |
| Specificity                                     | At least two isoforms of S1P1 are known to exist; this S1P1 antibody will only recognize the shorter isoform.                                                                                                                                              |
| Purity/Purification                             | S1P1 Antibody is affinity chromatography purified via peptide column.                                                                                                                                                                                      |
| Form/Format                                     | Liquid                                                                                                                                                                                                                                                     |
| Concentration                                   | 1 mg/mL (varies by lot)                                                                                                                                                                                                                                    |
| Sequence Length                                 | 382                                                                                                                                                                                                                                                        |
| Applicable Applications for anti-S1PR1 antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                                                                                                                                                                                       |
| Conjugate                                       | Unconjugated                                                                                                                                                                                                                                               |
| Immunogen                                       | S1P1 antibody was raised against a 14 amino acid synthetic peptide near the carboxy terminus of the human S1P1.                                                                                                                                            |
| Buffer                                          | S1P1 Antibody is supplied in PBS containing 0.02% sodium azide.                                                                                                                                                                                            |
| Preparation and Storage                         | S1P1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |

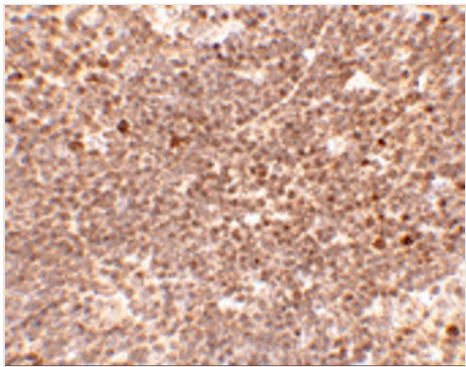
IMAGES



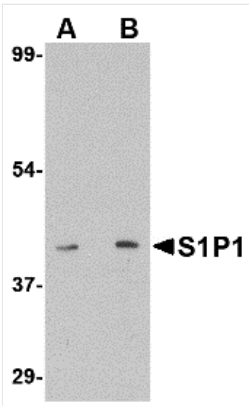
**IF (Immunofluorescence)**  
Immunofluorescence of S1P1 in mouse thymus tissue with S1P1 antibody at 20 µg/mL. Green: S1P1 Antibody (4809) Blue: DAPI staining



**IHC (Immunohistochemistry)**  
Immunohistochemistry of S1P1 in mouse thymus tissue with S1P1 antibody at 2.5 µg/mL.



**IHC (Immunohistochemistry)**  
Immunohistochemistry of S1P1 in mouse thymus tissue with S1P1 antibody at 5 µg/mL.



**WB (Western Blot)**  
Western blot analysis of S1P1 in mouse thymus lysate with S1P1 antibody at (A) 1 and (B) 2 µg/mL.

ADDITIONAL INFORMATION

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|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-S1PR1 antibody</b> | S1P1 Antibody: Movement of lymphocytes through lymphoid organs is required for generating immunity. Their migration into lymph nodes follows a series of events including integrin activation through chemokine signaling, adhesion and diapedis. The release of lymphocytes from lymph nodes is regulated by the phospholipid sphingosine-1-phosphate (S1P). One of its receptors S1P1 binds S1P with high specificity and affinity; agonism of this receptor by the immunosuppressive agent FTY720 inhibits the entry of tissue T cells into afferent lymphatics in homeostatic and inflammatory conditions. Recent experiments have indicated that CCR7-deficient T cells left lymph nodes more rapidly than wild-type cells did and these cells were also less effectively retained after treatment with FTY720, and that egress competence could be restored by inactivating G alpha i-protein-coupled receptor signaling. These results suggest that S1P1 acts in the lymphocyte to promote lymph node egress by overcoming retention signals mediated by CCR7 and G alpha i-protein-coupled receptor signaling. |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                           |                               |
|---------------------------|-------------------------------|
| NCBI GI #                 | 13027636                      |
| NCBI GeneID               | 1901                          |
| NCBI Accession #          | NP_001391                     |
| NCBI GenBank Nucleotide # | NM_001400.4                   |
| UniProt Accession #       | P21453; Q9BY4; Q9NYN8; D3DT66 |
| Molecular Weight          | 42,811 Da                     |

|                                  |                                                                                                                                                                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Official Full Name          | sphingosine 1-phosphate receptor 1                                                                                                                                                                                                                                                       |
| NCBI Official Synonym Full Names | sphingosine-1-phosphate receptor 1                                                                                                                                                                                                                                                       |
| NCBI Official Symbol             | S1PR1                                                                                                                                                                                                                                                                                    |
| NCBI Official Synonym Symbols    | EDG1; S1P1; CD363; ECGF1; EDG-1; CHEDG1; D1S3362                                                                                                                                                                                                                                         |
| NCBI Protein Information         | sphingosine 1-phosphate receptor 1; S1P receptor 1; S1P receptor Edg-1; sphingosine 1-phosphate receptor EDG1; sphingosine 1-phosphate receptor Edg-1; endothelial differentiation G-protein coupled receptor 1; endothelial differentiation, sphingolipid G-protein-coupled receptor, 1 |
| UniProt Protein Name             | Sphingosine 1-phosphate receptor 1                                                                                                                                                                                                                                                       |
| UniProt Gene Name                | <b>S1PR1</b>                                                                                                                                                                                                                                                                             |
| UniProt Synonym Gene Names       | CHEDG1; EDG1; S1P receptor 1; S1P1; S1P receptor Edg-1                                                                                                                                                                                                                                   |
| UniProt Entry Name               | S1PR1_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/s1p1-antibody-immunohistochemistry-western-blot-elisa/39556>