



## PRODUCT DATA SHEET

**Product:** Anti-EDG-6 (CT), Polyclonal

**Cat. No.:** PC-087 (100 µg)

**Background:**

EDG-6 belongs to a family of G-protein coupled receptors whose ligands are lysophospholipids. The ligand for EDG-6 is sphingosine-1-phosphate. There are 8 known members of the EDG receptor family and they are implicated in mediating growth related effects such as induction of cellular proliferation, alterations in differentiation and survival and suppression of apoptosis. They also evoke cellular effector functions that are dependent on cytoskeletal responses such as contraction, secretion, adhesion and chemotaxis. EDG receptors are developmentally regulated and differ in tissue distribution. They couple to multiple types of G proteins to signal through ras and MAP kinase, rho, phospholipase C and several protein tyrosine kinases. EDG-6 is expressed in lymphoid and hematopoietic tissue and in the lungs. Recently, the designation of the EDG receptors has been modified to include the ligand for the receptor. Thus, the new designation for the EDG-6 receptor is the sphingosine 1-phosphate receptor-4 (S1P-4).

**Specificity:**

Reacts with EDG-6.

**Species Reactivity:**

Human, other species not tested.

**Host:**

Rabbit

**Immunogen:**

Synthetic peptide derived from the C-terminal of the EDG-6 receptor.

**Format:**

100 µg purified antibody at 1 mg/ml in PBS with 0.08% sodium azide. Solution was sterile filtered at 0.2 µm.

**Storage:**

Store at -20°C. Avoid freeze/thaw cycles.

**Applications and Suggested Dilutions:**

■ Western Blot: Use at 5-10 µg/ml using a human EDG-6 receptor transfected cell line. Detects a band of approximately 45 kDa in Cos cells transfected with full length human EDG-6. Due to low expression of EDG receptors, we recommend using Pierce Femto Signal substrate for western blot development.

Positive Control: RH7777 cells transfected with EDG-6 protein.

The optimal dilution for a specific application should be determined by the researcher.

**Limitations:**

For *in vitro* research use only. Not for use in diagnostics or in humans.

**Warranty:**

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.