

Basic Information

Product Name	Anti-VEGFB Antibody
Gene Name	VEGFB
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human VEGFB recombinant protein (Position: Q25-A138).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	19,29 kDa
Dilution Ratios	Western blot (WB):1:500-2000 ELISA: 1:100-1000

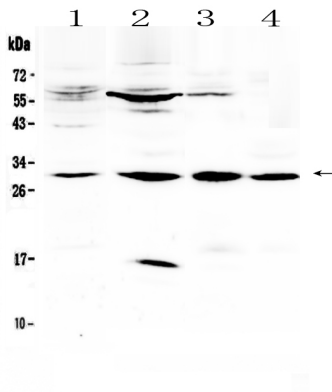
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

Vascular endothelial growth factor B also known as VEGF-B is a protein that, in humans, is encoded by the VEGF-B gene. VEGF-B is a growth factor that belongs to the vascular endothelial growth factor family, of which VEGF-A is the best-known member. In contrast to VEGF-A, VEGF-B plays a less pronounced role in the vascular system: Whereas VEGF-A is important for the formation of blood vessels, such as during development or in pathological conditions, VEGF-B seems to play a role only in the maintenance of newly formed blood vessels during pathological conditions. It also plays an important role on several types of neurons. And it is important for the protection of neurons in the retina and the cerebral cortex during stroke and of motoneurons during motor neuron diseases such as amyotrophic lateral sclerosis.

Selected Validation Data



Western blot analysis of VEGFB using anti-VEGFB antibody (A04494-1).

The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates,

Lane 2: rat pancreas tissue lysates,

Lane 3: mouse cardiac muscle tissue lysates,

Lane 4: mouse skeletal muscle tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-VEGFB antigen affinity purified polyclonal antibody (A04494-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for VEGFB at approximately 19,29 kDa. The expected band size for VEGFB is at 22 kDa.