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Certificate of Analysis and Data Sheet

Mouse Anti-Human VEGF Antibody

Catalog No.	Isotype/Clone:	Species:	Accession No:
130-10059	Mouse IgG1/A7-E11-G2	Human	NP_001165097

Description

Vascular endothelial growth factor (VEGF) is a member of the PDGF/VEGF growth factor family, produced by cells that stimulate the growth of new blood vessels. VEGF family includes VEGF-A, B, C, and D isoforms. VEGF-A was called VEGF before other isoforms were discovered. VEGF plays an important role in creating new blood vessels, inducing angiogenesis, vasculogenesis and endothelial cell growth, inhibiting apoptosis, mediating increased vascular permeability, promoting cell migration, etc. VEGF members stimulate cellular responses through binding to tyrosine kinase receptors (VEGFRs) on the cell surface.

Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			6.25 ng/ml
Western Blotting	*			1:2000
Immunohistology - frozen			*	
Immunohistology -paraffin			*	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Immunodetection Analysis: Representative blot from a previous lot. Lane 1, recombinant protein VEGF; Lane 2, protein marker. The membrane blot was probed with anti-VEGF primary antibody (0.5µg/ ml). Proteins were visualized using a donkey anti-mouse secondary antibody conjugated to IRDye 800CW detection system.

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.

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Preparation

Immunogen was recombinant protein derived from VEGF. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein G/A affinity chromatography.

Specificity

The mouse anti-human VEGF antibody specifically detects targets derived from human recombinant protein at various concentrations. Cross reactivity with mouse and rat are expected from sequence similarity.

Reconstitution

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1 x PBS to a final concentration of 1 mg/ml.

Storage

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

Reference

1. Holmes K, et al. (2007) Vascular endothelial growth factor receptor-2: structure, function, intracellular signaling and therapeutic inhibition. Cell Signal. 19 (10): 2003–2012.

2. Bergers G, Hanahan D (2008). Modes of resistance to antiangiogenic therapy. Nat. Rev. Cancer 8 (8): 592–603.

3. Rosenfeld PJ, et al. (2006). Ranibizumab for neovascular agerelated macular degeneration. New Engl J Med. 355 (14): 1419–1431.