BioLegend
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Product Data Sheet

LEAF™ Purified anti-mouse VEGF-A

Catalog # / Size: 512807 / 50 µg
512808 / 500 µg

Clone: 2G11-2A05

Isotype: Rat IgG2a, κ

Immunogen: N-terminal 24 aa sequence of murine VEGF

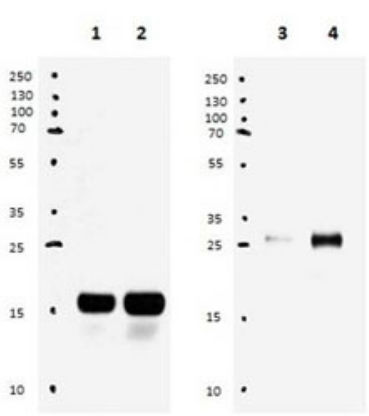
Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The VEGF-A antibody solution should be stored undiluted at 4°C. This LEAF ™ solution contains no preservative; handle under aseptic conditions.



100 ng (Lane 1) or 200 ng (Lane 2) of recombinant mouse VEGF120 (Cat. No. 580902), and 100 ng (Lane 3) or 200 ng (Lane 4) of recombinant mouse VEGF164 (Cat. No. 583102) were separated by electrophoresis, transferred to nitrocellulose, and probed with monoclonal anti-mouse VEGFA (clone 2G11-2A05) primary antibody. Proteins were visualized using a goat anti-rat IgG secondary conjugated to HRP and chemiluminescence detection.

Applications:

Applications: WB - *Quality tested*
Neut, ELISA, IHC, FA - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. For Western blotting, suggested working dilution(s): Use 2.5-10 µg antibody per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **Neutralization:** The LEAF™ Purified antibody is recommended for neutralization of mouse VEGF-A bioactivity *in vivo*[3] and *in vitro*[3].
Western Blotting: It is suggested to use 0.5-2 µg/ml for WB[3].
Immunohistochemistry: Clone 2G11-2A05 is recommended for IHC on saponin-treated frozen tissue sections at a concentration range of 5-10 µg/ml.
ELISA or ELISPOT: The LEAF™ Purified 2G11-2A05 antibody is useful in a mouse VEGF-A ELISA or ELISPOT assay.
Functional Assay: The LEAF™ Purified 2G11-2A05 antibody is useful in a mouse VEGF-A functional assay[3].
It is recommended that the reagent be titrated for optimal performance for each application.

Application References:
1. Reinders MEJ, et al. 2003. J. Clin. Invest. 112:1655.
2. Wuest TR, *et al.* 2009. *J. Exp Med.* 207;101. (Neut) PubMed
3. Basu A, *et al.* 2008. *Cancer Res.* 68:5689. (Neut WB FA) PubMed
4. Kumar V, *et al.* 2010. *Blood* 115:4725. PubMed
5. Lu R, *et al.* 2012. *Cancer Res.* 72:2239. PubMed.
6. Jayarman P, *et al.* 2012. *J. Immunol.* 188:5365. PubMed.

Description: VEGF-A, also known as VEGF (vascular endothelial growth factor), is the founding member of the family including VEGF (VEGF-A), VEGF-B, VEGF-C, VEGF-D, VEGF-E, and PIGF. Vascular endothelial growth factors (VEGFs) are a family of secreted polypeptides with a highly conserved receptor-binding cystine-knot structure similar to that of the platelet-derived growth factors.VEGF-A has important roles in mammalian vascular development and in diseases involving abnormal growth of blood vessels such as tumor-related angiogenesis.VEGF-A is produced by diverse cell types, including aortic vascular smooth muscle cells, keratinocytes, macrophages and many tumor cells. Oxygen tension is a key physiological regulator of VEGF-A gene expression.

Antigen References:
1. Contreras A, *et al.* 2007. Am. J. Transpl. 7:155.
2. Lambrechts D and Carmeliet P. 2007. Biochim. Biophys. Acta. 1762:1109.
3. Tong JP and Yao YF. 2006. Clin. Biochem. 39:267.
4. Reinders MEJ, *et al.* 2003. J. Clin. Invest. 112:1655
5. Ferrara N, *et al.* 2003. Nat. Med. 9:669.
6. Shibuya M. 2001. Cell Struct. Funct. 26:25.
7. Senger DR, *et al.* 1983. Science. 219:983.

Related Products:

Product	Clone	Application
HRP Goat anti-rat IgG (minimal x-reactivity)	Poly4054	ELISA, IF, IHC, WB
Biotin Goat anti-rat IgG (minimal x-reactivity)	Poly4054	FC, ELISA, WB

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LEAF™ Purified Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC, WB, IP, ICC, IF, IHC, FA

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