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Neutralizing Antibody of Mouse VEGF-A (clone MAB0705; cross reactivity of human VEGF)

Description: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with purified mouse VEGF). Mouse IgG₁ fraction of culture supernatant from the hybridoma was purified by protein G affinity chromatography.

Host species	Mouse
Antigen:	recombinant human VEGF-A
Purification:	Protein G chromatography
Stabilizer:	none
Formulation:	lyophilized

Formulation: Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS)

Reconstitution: Reconstitute with sterile PBS.

Storage: Lyophilized products are stable for at least 2 years when stored at -20°C. Reconstituted antibody can be stored frozen at -70°C for at least for 6-months. **Avoid repeated freeze-thaw cycles.**

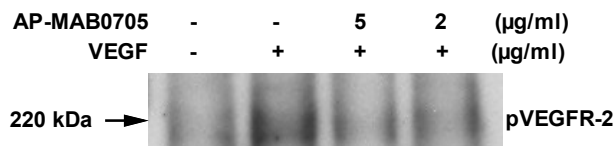
Specificity: This antibody recognizes mouse VEGF in Western blot. It cross-reacts with human VEGF.

Applications

- 1. Neutralization:** Yes. (human and mouse)
- 2. Western blot:** Yes. (human and mouse)

Optimal dilutions should be determined by each laboratory for each application.

AP-MAB0705 attenuates mouse VEGF (50ng/ml)-induced VEGFR2 phosphorylation in mouse endothelial cells.



Mouse endothelial cells were stimulated with mouse VEGF for 20 mins in the absence or presence of AP-MAB0705 with indicated concentration. The level of p-VEGFR2 was detected using anti-phospho-VEGF2.

Usage: Anti-mouse VEGF is offered for research use. Not for drug use. **Not for human use!**

Catalogue number: mV1007m-m

Size: 200 µg

AP-MAB0705 neutralizes mouse VEGF in vivo: 1.0 mg of AP-MAB0705 or mouse IgG1 isotype control antibody was injected into Balb/c mice (ip) 24 hours before mouse VEGF120 (750ng/mouse) or saline was administered (ip) and serums were collected 1hr thereafter, for mVEGF assay using ELISA kit (R&D systems).

Serum mVEGF levels in balb/c mice 24hours after the injection of AP-MAB0705 or Isotype control mouse IgG1 (1mg/mouse)

<u>Groups</u>	<u>Mean (pg/ml)</u>	<u>SD</u>
Control (n=5)	151.23	11.31
Isotype IgG1 (n=5)	145.87	13.23
AP-MAB0705 (n=5)	ND*	

ND*: Not Detectable

Serum mVEGF levels, 1 hour after ip injection of mVEGF120 (750ng/mouse) in balb/c mice pre-exposed to AP-MAB0705 or isotype control IgG1 (1mg/mouse) for 12 hours.

<u>Groups</u>	<u>Mean (pg/ml)</u>	<u>SD</u>
Isotype IgG1 (n=5)	143.25	14.53
Isotype IgG1 + mVEGF121 (n=5)	6078.44	321.72
AP-MAB0705 (n=5)		ND*
AP-MAB0705 + mVEGF120 (n=5)		ND*

ND*: Not Detectable

Literature: Zhang F et al, Proc Natl Acad Sci USA. 2009 Apr 14; 106(15): 6152-7. Epub 2009 Apr 6. In: Supporting Information.