

Neutralizing Antibody of Mouse VEGF (cross reactivity of human VEGF)

ORDERING INFORMATION

Catalog No:	mV1007m-m
Size:	200 µg
Storage:	< -20° C
Immunogen:	recombinant mouse VEGF
Ig Type:	mouse IgG1
Clone:	AP-MAB0705
Applications:	Neutralization and WB

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

Formulation & Reconstitution: Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) and reconstitute with sterile PBS (0.5ml).

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

	Mouse	Human
1. Neutralization of VEGF:	Yes	Yes
2. Western blot:	Yes	Yes

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

AP-MAB0705	-	-	5	2	(µg/ml)
VEGF	-	+	+	+	(50ng/ml)

pVEGFR2

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.



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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)

Groups	Mean (pg/ml)	SD
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.

Groups	Mean (pg/ml)	SD
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