

Anti-VEGF [G6-31] Standard size

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Description: Recombinant monoclonal antibody to VEGF. Manufactured using AbAb's Recombinant Platform with variable regions (i.e. specificity) from the phage display antibody G6-31.

Isotype and Format: Mouse IgG2a, kappa

Clone Number: G6-31

UniProt Accession Number of Target Protein:

Published Application(s): ELISA; crystallisation; block; SPR; IF

Published Species Reactivity: Mouse

Immunogen: The anti-mVEGF Fab G6 underwent light chain randomisation by placing stop codons in positions 91-96 in CDR-L3 and an equimolar mix of oligonucleotides designed for mutagenesis was annealed to the mV401 stop template phagemid, followed by mutagenesis and E. coli electroporation. Binding selection was performed with mVEGF immobilised on immunoplates followed by solution-phase sorting with increasing stringency and single-point competitive ELISA to screen for high-affinity clones. The variable domain was then cloned into vectors for Fab expression in E. coli.

Specificity: G6-31 recognises a VEGF epitope which is conserved between human and mouse VEGF and overlaps with the receptor binding surface. The KD of G6-31 binding to m-VEGF and h-VEGF is ~0.9 and 1.5 nM respectively. Alanine-scanning mutagenesis of solvent-accessible residues of h-VEGF identified 10 residues that result in >4-fold loss in binding affinity including F17, M18, Y21, Q22, Y25, I83, H86, Q89 and I91.

Antibody First Published in:

Fuh et al J Biol Chem. 2006 Mar 10;281(10):6625-31 [PMID:16373345](#) **Note on publication:**

Describes the isolation of the antibody from synthetic antibody phage libraries and analysis of VEGF binding.

Product Form

This is a Standard size product. Purified antibody.

Purification: Protein A affinity purified

Supplied in: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: See vial label

Product Code: Ab01022-2.0

Mouse IgG2a

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.