

Anti-alpha-V beta 5 integrin [EM09902] Standard Size Ab00888-13.12

This chimeric human antibody was made using the variable domain sequences of the original Rabbit IgG format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG4-S228P, Kappa

Clone Number: EM09902

Alternative Name(s) of Target: $\alpha\text{v}\beta 5$; ITGAV:ITGB5; alpha V beta 5; alphaV beta5; alpha-V integrin; Vitronectin receptor subunit alpha; CD51; Integrin beta-5; ITGB5; P06756; P18084; aVb5

UniProt Accession Number of Target Protein:

Published Application(s): WB, ELISA, FC, IHC

Published Species Reactivity: Human

Immunogen: This antibody was raised by immunising rabbits, isolating B cells from the immunised rabbits and fusing these with a rabbit plasmacytoma cell line (established by Spieker-Polet et al., 1995) to produce stable hybridomas

Specificity: This antibody is specific for the extracellular domain of human recombinant transmembrane-truncated (DTM) $\alpha\text{v}\beta 5$ integrin, a dimeric cell surface protein that mediates cell attachment. $\alpha\text{v}\beta 5$ integrin is also involved in tumour growth and angiogenesis.

Application Notes: This antibody has been used to specifically bind $\alpha\text{v}\beta 5$ in Western blots and in flow cytometry (Goodman et al, 2012), revealing that cell lines HT29 and A549 strongly express $\alpha\text{v}\beta 5$, with lower levels of expression by the M21 and M24 lines. This antibody also specifically stains $\alpha\text{v}\beta 5$ in FFPE (formalin fixed paraffin embedded)/TMA material (Goodman et al, 2012; Heß et al., 2014; Roth et al, 2013), while murine antibodies are typically unable to detect FFPE-embedded integrins.

Antibody First Published in: Goodman et al. Matched rabbit monoclonal antibodies against αv -series integrins reveal a novel $\alpha\text{v}\beta 3$ -LIBS epitope, and permit routine staining of archival paraffin samples of human tumours Biol Open. 2012 Apr 15; 1(4): 329-340. [PMID:23213423](#)

Note on publication: Describes the generation and characterisation of this antibody.

Product Form

Size: 100 µg 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: 1 mg/ml.

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