

Anti-Itgav Neutralizing Antibody (V3S-0822-YC1947)

Cat. No.: V3S-0822-YC1947

Summary

Description	This product is a rat monoclonal antibody provided by Creative Biolabs. The antibody is capable of recognizing integrin alpha V. It can be used for Itgav detection in Flow Cytometry (FC), Functional Assay (FuncS), Immunoprecipitation (IP), Neutralization Assay (Neut). The antibody is expressed in mammalian cells (293F or CHO) with antibody encoding genes and purified by affinity chromatography. Each lot of this antibody is quality control tested by SDS-PAGE and SEC-HPLC analysis. For highly sensitive assays, we recommend the ultra purified form of the product, which has a lower endotoxin limit than standard antibody, less than 1 EU/mg or even 0.1 EU/mg.
Clonality	Monoclonal
Host Species	Rat
Target Species	Mouse
Isotype	IgG1 kappa
Isotype Control	C24476
Secondary Antibody	C40224; C74571; C22227; C56421; C47763; C63764; C45522

Property

Conjugation	Unconjugated
Purity	>95%, determined by SDS-PAGE
Purification	Affinity purified
Storage	Store at 4°C within one or two weeks. Store at -20°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics.

Applications

Application	FC; FuncS; IP; Neut
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Target

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

Target	Itgav
Alternative Name	Itgav; integrin alpha V; CD51; 1110004F14Rik; 2610028E01Rik; D430040G12Rik
Gene ID	16410
UniProt	P43406
Introduction	Itgav is a protein that is a member of the integrin superfamily. Integrins are transmembrane receptors involved cell adhesion and signaling, and they are subdivided based on the heterodimer formation of alpha and beta chains. This protein has been shown to heterodimerize with beta 1, beta 3, beta 6 and beta 8. The heterodimer of alpha v and beta 3 forms the Vitronectin receptor. This protein interacts with several extracellular matrix proteins to mediate cell adhesion and may play a role in cell migration. In mouse, deficiency of this gene is associated with defects in vascular morphogenesis in the brain and early post-natal death.
Research Area	Cardiovascular
Proceedings of R&D	Diseases associated with ITGAV include West Nile Virus and Herpes Simplex. Among its related pathways are MET promotes cell motility and Integrin Pathway. Gene Ontology (GO) annotations related to this gene include protease binding and voltage-gated calcium channel activity. An important paralog of this gene is ITGA8.

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