

Datasheet for ABIN7655397
anti-CD51 antibody (CF®647)



[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	CD51 (ITGAV)
Reactivity:	Human, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD51 antibody is conjugated to CF®647
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunoprecipitation (IP), Immunofluorescence (IF), Functional Studies (Func)

Product Details

Purpose:	Vitronectin Receptor / CD51 / CD61(23C6), CF647 conjugate
Immunogen:	Osteoclasts from osteoclastomas
Clone:	23C6
Isotype:	IgG1, kappa
Characteristics:	ITAGV encodes integrin alpha chain V. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The I-domain containing integrin alpha V undergoes post-translational cleavage to yield disulfide-linked heavy and light chains, that combine with multiple integrin beta chains to form different integrins. Among the known associating beta chains (beta chains 1, 3, 5, 6, and 8, 'ITGB1', 'ITGB3', 'ITGB5', 'ITGB6', and 'ITGB8'), each can interact with extracellular matrix ligands, the alpha V beta 3 integrin, perhaps the most studied of these, is referred to as the Vitronectin Receptor (VNR). In addition to

Product Details

adhesion, many integrins are known to facilitate signal transduction. Alternative splicing results in multiple transcript variants. Reacts with Integrin Alpha V Beta 3. 23C6 may be useful for bone resorption modulation, osteoclast identification, receptor purification, malignant melanoma identification and treatment. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	CD51 (ITGAV)
Alternative Name:	CD51
Background:	Synonyms: CD51, DKFZp686A08142, integrin alpha V beta 3, Integrin alpha-5 Integrin alpha-V light chain, integrin alphaVbeta3, integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51), ITGAV, Msk8, VNRA, VTNR Gene Symbol: ITGAV
Molecular Weight:	150-160 kDa under non-reducing conditions. Under reducing conditions, it is cleaved into 2 bands of about 125-130 kDa 20-25 kDa.
Gene ID:	3685
UniProt:	P06756
Pathways:	Cell-Cell Junction Organization , Signaling Events mediated by VEGFR1 and VEGFR2 , Growth Factor Binding , Integrin Complex

Application Details

Application Notes:	ELISA: For coating, order antibody without BSA, Optimal dilution for a specific application should be determined.. Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody
Comment:	Positive Control: Squamous cells, A375M melanoma cells. A549 cells.
Restrictions:	For Research Use only

Handling

Format:	Liquid
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Handling

Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light
Storage:	4 °C
Storage Comment:	Stable at room temperature or 37°C for 7 days. Protect from light Store at 2 to 8°C. Protect fluorescent conjugates from light
Expiry Date:	24 months