Data Sheet (Cat.No.TMAC-00534)

Anti-Calsequestrin 1 Antibody (2G592)

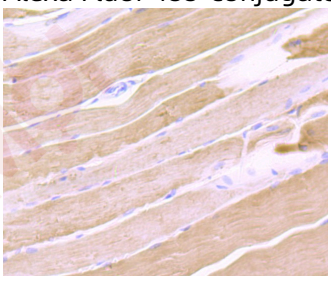
Product Details

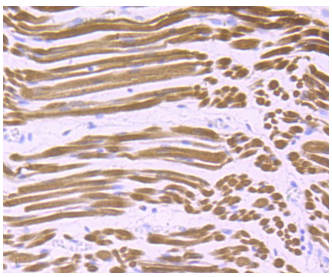
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 45 kDa.
Clone:	2G592
Purification:	ProA affinity purified

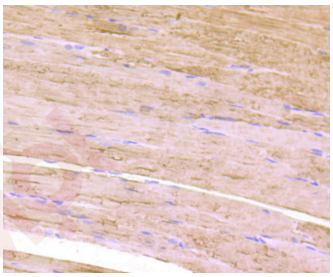
Applications

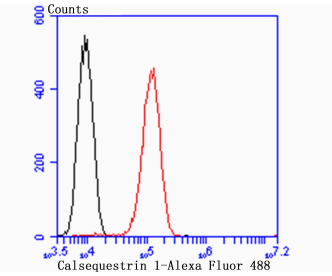
Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue using anti-Calsequestrin 1 antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded human fetal skeletal muscle tissue using anti-Calsequestrin 1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-Calsequestrin 1 antibody. Counter stained with hematoxylin.
4. Flow cytometric analysis of C2C12 cells with Calsequestrin 1 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.









Application: FCM,IHC,WB

Recommended: WB: 1:500; IHC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P31415

Synonyms: calsequestrin 1 (fast-twitch, skeletal muscle);VMCQA;CASQ;PDIB1

Research Background

Calsequestrin (CS, also known as CSQ) is the major calcium-binding protein of cardiac and skeletal muscle whose function is to sequester calcium in the lumen of the sarcoplasmic reticulum (SR). In mammals, there are two forms of this protein, calsequestrin 1 and calsequestrin 2, which encode fast-twitch skeletal muscle and cardiac calsequestrin, respectively. Calsequestrin 1, also known as Calmitin, is located in the terminal cisternae luminal spaces of the SR of fast skeletal muscle cells. Calsequestrin 2 is present in terminal cisternae luminal spaces of the SR of both cardiac and slow skeletal muscle cells. In addition, calsequestrin regulates the ryanodine receptor signaling (RyR) through Triadin and Junctin.

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