

SERCA1 (D580) polyclonal antibody

Catalog: BS3934

Host: Rabbit

Reactivity: Human, Mouse

Background:

The sarcoplasmic reticulum of striated muscle is a specialized intracellular membrane system that plays a critical role in the contraction and relaxation of muscle. The SERCAs mediate Ca²⁺ uptake into intracellular stores. SERCA-mediated Ca²⁺ uptake induces and maintains muscular relaxation. The SERCA1 gene is exclusively expressed in type II (fast) skeletal muscle. The SERCA2 gene is subject to tissue-dependent processing which is responsible for the generation of the SERCA2a muscle-specific form expressed in type I (slow) skeletal, cardiac and smooth muscle, and the SERCA2b isoform expressed in all cell types. The SERCA3 gene is not as well characterized and is found in non-muscle cells. SERCA2 plays an important part in regulating cardiac contractile function. SERCA3 is an isoform expressed in several cell types including platelets, lymphoid cells and mast cells. SERCA1, SERCA2 and SERCA3 all undergo alternative splicing.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 110 kDa

Swiss-Prot:

O14983

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

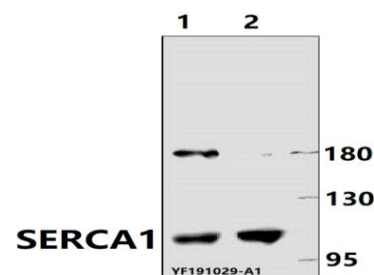
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

SERCA1 (D580) polyclonal antibody detects endogenous levels of SERCA1 protein.

DATA:



Western blot (WB) analysis of RIP pAb at 1:500 dilution

Lane1:HCT116 whole cell lysate(40ug)

Lane2:CT-26 whole cell lysate(40ug)

Immunohistochemistry (IHC) analyzes of SERCA1 (D580) pAb in paraffin-embedded human skeletal muscle tissue.

Note:

For research use only, not for use in diagnostic procedure.

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