

RyR2 (phospho-S2808) polyclonal antibody

Catalog: BS4358

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Dihydropyridine receptor (DHPR) is a surface membrane protein critical for the excitation-contraction coupling of striated muscle. DHPR and the sarcoplasmic reticulum ryanodine receptor (RyR) are two key components of the intracellular junctions, where depolarization of the surface membrane is converted into the release of Ca^{2+} from internal stores. The $\alpha 1$ -subunit of the DHPR contains a cytoplasmic loop which is thought to be involved in the interactions with RyR. Phosphorylation of the DHPR $\alpha 1$ -subunit is also thought to play a role in the functional interaction of DHPR and RyR. Mutation in DHPR $\alpha 1$ results in excitation-contraction uncoupling, leading to muscular dysgenesis, a complete inactivity in developing skeletal muscles. Cells that do not express RyR also lack excitation-contraction coupling and exhibit a severalfold reduction in Ca^{2+} current density.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 565 kDa

Swiss-Prot:

Q92736

Purification&Purity:

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

p-RyR2 (S2808)pAb detects endogenous levels of RyR2 protein only when phosphorylated at Ser2808

DATA:



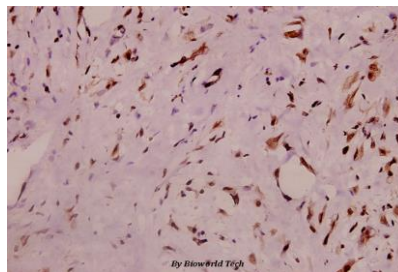
Western blot (WB) analysis of p-RyR2 (S2808) pAb at 1:500 dilution

Lane1:PC3 whole cell lysate(40ug)

Lane2:K562 whole cell lysate(40ug)

Lane3:HEK293T whole cell lysate(40ug)

Lane4:U-87MG whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of p-RyR2 (S2808) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.

Note:

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

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