

## **Product datasheet**

# anti-Cardiac Actin mouse monoclonal, AC1-20.4.2, lyophilized, purified

#### Short overview

**Cat. No.** 61075\_1 **Quantity** 50 µg

Concentration 50 µg/ml after reconstitution with 1 ml dist. water

## **Product description**

HostMouseAntibody TypeMonoclonalIsotypeIgG1CloneAC1-20.4.2

Immunogen Synthetic NH2 terminus decapeptide of cardiac isoform of actin

Formulation Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA

in PBS buffer, pH 7.4)

UniprotID P68034 (Chicken), P68032 (Human), G1STB6 (Rabbit)

**Synomym** Actin, alpha cardiac muscle 1, Alpha-cardiac actin [Cleaved into: Actin, alpha cardiac muscle 1,

intermediate form], ACTC1, ACTC

Conjugate Unconjugated

**Purification** Affinity chromatography

**Storage before** 2-8°C until indicated expiry date

reconstitution

**Storage after** Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles

reconstitution

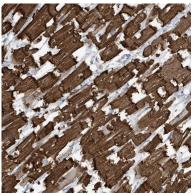
Intended useResearch use onlyApplicationELISA, IHC, WB

Reactivity Bovine, Chicken, Human, Rabbit

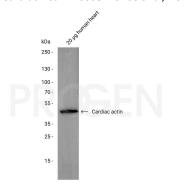
#### Background

Ac1 represents an excellent marker for cardiac tissue; it discriminates fetal (cardiac) a-actin from all other actin isoforms. Fetal actin can be localized in regenerating skeletal muscle after injury (in satellite cells) and in veins of the umbelical cord. Mab Ac1-20.4.2 shows no cross reaction with other actin isoforms present in skeletal and smooth muscle, provided that stringent experimental conditions have been applied. Polypeptide reacting: Specific for fetal (cardiac) isoform of actin.

## **Product images**



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Western blot analysis of human heart whole tissue lysate and with anti-Cardiac Actin antibody. Western blot analysis was performed on 20  $\mu$ g human heart lysate. The PVDF membrane was blocked with 5% milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibody anti-Cardiac Actin mouse monoclonal, AC1-20.4.2 (Cat. No. 690075) was diluted in blocking buffer (antibody concentration 0.05  $\mu$ g/ml) and incubated for 1 h at RT. The secondary antibody anti-mouse IgG, HRP conjugate was also diluted in blocking buffer (antibody concentration 0.2  $\mu$ g/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using PierceTM ECL Western Blotting Substrate.

# References

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