

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Actin (E361) pAb

Cat No.: BS1002

Host: Rabbit

Reactivity: Human, Mouse, Rat

BACKGROUND

All eukaryotic cells express Actin, which often constitutes as much as 50% of total cellular protein. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. While lower eukaryotes, such as yeast, have only one Actin gene, higher eukaryotes have several isoforms encoded by a family of genes. At least six types of Actin are present in mammalian tissues and fall into three classes. Alpha Actin expression is limited to various types of muscle, whereas beta and gamma are the principle constituents of filaments in other tissues. Members of the small GTPase family regulate the organization of the Actin cytoskeleton. Rho controls the assembly of Actin stress fibers and focal adhesion, Rac regulates Actin filament accumulation at the plasma membrane and Cdc42 stimulates formation of filopodia.

PRODUCT

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

Molecular Weight

~45.0 kDa

PURIFICATION & PURITY

The pAb 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 (Recommended Dilutions)

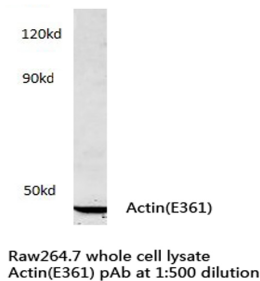
STORAGE & STABILITY

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

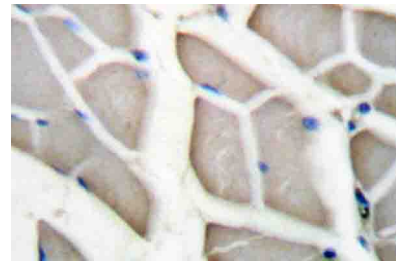
SPECIFICITY

Actin (E361) pAb detects endogenous levels of Actin protein.

DATA



Western blot (WB) analyzes of Actin (E361) pAb in extracts from Raw264.7 cells.



Immunohistochemistry (IHC) analyzes of Actin (E361) pAb in paraffin-embedded human skeletal muscle tissue.

RESEARCH USE

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

Bioworld Technology, Inc.

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