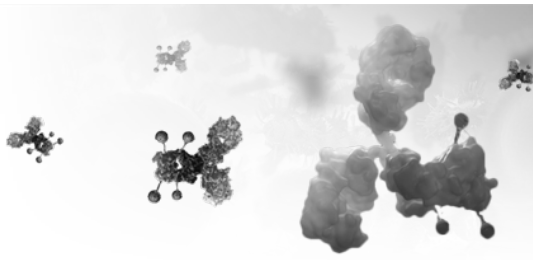

Anti-Myosin monoclonal antibody (CABT-BL2563)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Myosin from C. elegans.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Caenorhabditis elegans
Conjugate	Unconjugated
Applications	WB, IHC
Preservative	None
Storage	-20°C (long period -70°C).

BACKGROUND

Introduction

Myosins comprise a family of ATP-dependent motor proteins and are best known for their role in muscle contraction and their involvement in a wide range of other eukaryotic motility processes. They are responsible for actin-based motility. The term was originally used to describe a group of similar ATPases found in striated and smooth muscle cells. Following the discovery by Pollard and Korn of enzymes with myosin-like function in Acanthamoeba castellanii, a large number of divergent myosin genes have been discovered throughout eukaryotes. Thus, although myosin was originally thought to be restricted to muscle cells (hence, "myo"), there is no single "myosinbut rather a huge superfamily of genes whose protein products share the basic properties of actin binding, ATP hydrolysis (ATPase enzyme activity), and force transduction. Virtually all eukaryotic cells contain myosin isoforms. Some isoforms have specialized functions in certain cell types (such as muscle), while other isoforms are

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ubiquitous. The structure and function of myosin is strongly conserved across species, to the extent that rabbit muscle myosin II will bind to actin from an amoeba.

GENE INFORMATION

Entrez Gene ID	172568
Protein Refseq	NP_492192
UniProt ID	Q22666

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