**BACKGROUND**

MYL6B (myosin light chain 6B) is a heavy chain regulator found in smooth muscle and non-muscle Myosin complexes. Three general classes of Myosin have been cloned: smooth muscle myosins, striated muscle myosins and non-muscle myosins. Contractile activity in smooth muscle is regulated by the calcium/calmodulin-dependent phosphorylation of myosin light chain by myosin light chain kinase. Myosin heavy chains are encoded by the MYH gene family and have Actin-activated ATPase activity which generates the motor function of Myosin. Although it contains three of the EF-hand domains common to Actin and other Myosin regulating proteins, MYL6B does not bind calcium during contraction. It is primarily found in a hexamer consisting of four light chains and two heavy chains. It most commonly interacts with Myosin Va, an Actin based motor that can move in large steps. MYL6B is expressed in most tissues with neurons and smooth muscle tissue having the highest expression.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: MYL6B (human) mapping to 12q13.2.

**PRODUCT**

MYL6B (h): 293 Lysate represents a lysate of human MYL6B transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.