



Llama Anti-Human alfa-actinin 4 Monoclonal Antibody, clone Oc75 (CABT-Z343L)

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

PRODUCT INFORMATION

| | |
|---------------------------|--|
| Product Overview | This antibody comes with a COOH-terminal HA epitope tag. |
| Immunogen | A protein fragment encompassing actinin 4 amino acids 404-765. |
| Source/Host | Llama |
| Species Reactivity | Human |
| Clone | Oc75 |
| Purification | Purified |
| Conjugate | Unconjugated |
| Applications | Pharmacodynamics, IP, ELISA |
| Format | Liquid |
| Concentration | Lot specific |
| Size | 100 µg |
| Buffer | 20 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1mM DTT, 60 % glycerol. |
| Preservative | None |
| Storage | Store at -20°C upon arrival. For long term storage, aliquot and store at -80°C. Avoid repeated freeze/thaw cycles. |
| Ship | Wet ice |

BACKGROUND

Introduction

Alfa-actinin4 is a cytoskeletal protein and actin cross-linker encoded by the ACTN4 gene, and is a member of the spectrin superfamily of cytoskeletal proteins. Together with isoform 1, actinin-4 is found in nearly every non-muscle cell but also in cancer cells. The N-terminal pair of Calponin-homology domains constitute an actin binding site whereas the spectrin repeats likely form a rod-like domain. It forms homodimers and has been observed to shuttle between nucleus and cytoplasm under certain conditions. Alfa-actinin function is not restricted to cell motility and cytoskeletal organization, but extends to modulation of gene expression, apoptosis and endocytosis. Actinin-4 deficient mice develop proteinurea and glomerular disease.

Keywords

ACTN4;actinin, alpha 4;focal segmental glomerulosclerosis 1 , FSGS1;alpha-actinin-4;actinin alpha4 isoform;non-muscle alpha-actinin 4

GENE INFORMATION

Gene Name ACTN4

Entrez Gene ID [81](#)

UniProt ID [O43707](#)