Recombinant ZPR1 Monoclonal Antibody

catalog number: **AN302027L**

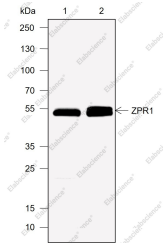
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Peptide. This information is proprietary to PTMab
Host	Rabbit
Isotype	Rabbit IgG
Clone	C331648
Purification	Protein A affinity purification
Conjugation	Unconjugated
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:1000

Data



Western Blot with ZPR1 Monoclonal Antibody at dilution of 1:1000. Lane 1: MCF-7, Lane 2: Jurkat

Observed-MW:53 kDa

Calculated-MW:51 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles.
Shipping	Ice bag

Background

The zinc finger protein ZPR1 (ZNF259) binds to epidermal growth factor receptor (EGFR) and is localized to both cytoplasm and nucleus. The zinc fingers found in ZPR1 and the tyrosine kinase domain of EGFR mediate the interaction between ZPR1 and the receptor (1). ZPR1 translocates from the cytoplasm to nucleus following mitogen (i.e. EGF) stimulation (2,3). ZPR1 also interacts with translation elongation factor eEF1A in vivo following EGF treatment (3). The interaction between the zinc finger protein and elongation factor is important for cell proliferation. Cells lacking ZPR1 exhibit abnormal nucleolar function, suggesting that ZPR1 is required for cell viability and nucleolar function in dividing cells (3). ZPR1 knockout mice exhibit significant neurodegeneration, and reduced or altered expression of ZPR1 may contribute to spinal muscular atrophy, a disorder characterized by degeneration of spinal cord neurons (4).

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