10320 Camino Santa Fe, Suite G
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TRPM7 Antibody (aa1817-1863, clone S74-25)

Mouse Monoclonal Antibody
Catalog # ALS13767

Specification

TRPM7 Antibody (aa1817-1863, clone S74-25) - Product Information

Application	**IF, WB**
Primary Accession	Q96QT4
Reactivity	**Human, Mouse, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**213kDa KDa**

TRPM7 Antibody (aa1817-1863, clone S74-25) - Additional Information

Gene ID 54822

Other Names
Transient receptor potential cation channel subfamily M member 7, 2.7.11.1, Channel-kinase 1, Long transient receptor potential channel 7, LTrpC-7, LTrpC7, TRPM7, CHAK1, LTRPC7

Target/Specificity
Detects ~220 kD protein. No cross reactivity with TrpM6.

Reconstitution & Storage
Store at -20°C.

Precautions
TRPM7 Antibody (aa1817-1863, clone S74-25) is for research use only and not for use in diagnostic or therapeutic procedures.

TRPM7 Antibody (aa1817-1863, clone S74-25) - Protein Information

Name TRPM7

Synonyms CHAK1, LTRPC7

Function
Essential ion channel and serine/threonine-protein kinase. Divalent cation channel permeable to calcium and magnesium (PubMed:35561741). Has a central role in magnesium ion homeostasis and in the regulation of anoxic neuronal cell death. Involved in TNF- induced necroptosis downstream of MLKL by mediating calcium influx. The kinase activity is essential for the channel function. May be involved in a fundamental process that adjusts plasma membrane divalent cation fluxes according to the metabolic state of the cell. Phosphorylates annexin A1 (ANXA1).

Cellular Location
Membrane; Multi-pass membrane protein

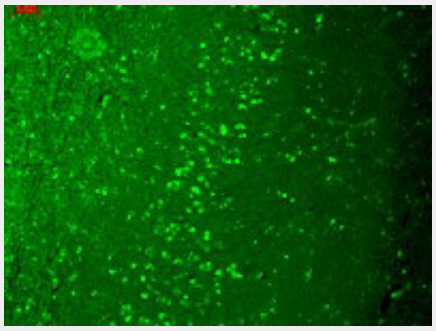
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TRPM7 Antibody (aa1817-1863, clone S74-25) - Protocols

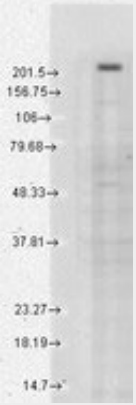
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRPM7 Antibody (aa1817-1863, clone S74-25) - Images



TrpM7 (S74-25), Human hippocampus.



TrpM7 (S74-25), Human cell line mix.

TRPM7 Antibody (aa1817-1863, clone S74-25) - Background

Essential ion channel and serine/threonine-protein kinase. Divalent cation channel permeable to calcium and magnesium. Has a central role in magnesium ion homeostasis and in the regulation of anoxic neuronal cell death. Involved in TNF- induced necroptosis downstream of MLKL by mediating calcium influx. The kinase activity is essential for the channel function. May be involved in a fundamental process that adjusts plasma membrane divalent cation fluxes according to the metabolic state of the cell. Phosphorylates annexin A1 (ANXA1).

TRPM7 Antibody (aa1817-1863, clone S74-25) - References

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Nadler M.J.S.,et al.Nature 412:660-660(2001).
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