

Thiophosphate ester Rabbit mAb

Catalog No: #49119

Package Size: #49119-1 50ul #49119-2 100ul

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Description

Product Name	Thiophosphate ester Rabbit mAb
Clone No.	SD2020
Purification	ProA affinity purified
Applications	IP
Immunogen Description	Thiophosphate ester linked to KLH
Formulation	1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Background

A thiophosphate (or phosphorothioate) is a family of compounds and anions with the general chemical formula $PS_4-xO_x^{3-x-}$ ($x = 0, 1, 2, \text{ or } 3$). The state of protonation is usually not specified. They could be bound to as many as three protons for the neutral $H_3PS_4-xO_x$ species. Two protons correspond to the related monoanions, and one proton for the dianions. The trianions are highly basic and do not exist in appreciable concentrations in solution. Thiophosphates are tetrahedral anions, with the phosphorus at the center of the tetrahedron.

References

1. Leissing F et al. Substrate thiophosphorylation by Arabidopsis mitogen-activated protein kinases. BMC Plant Biol 16:48 (2016).
2. Li YH et al. AMP-Activated Protein Kinase Directly Phosphorylates and Destabilizes Hedgehog Pathway Transcription Factor GLI1 in Medulloblastoma. Cell Rep 12:599-609 (2015).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.