

Anti-TMEFF1/Tomoregulin-1 Antibody

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Store at low temperature
Store at -20°C

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Anti-TMEFF1/Tomoregulin-1 Antibody is a functional monoclonal antibody specifically targeting Tomoregulin-1 (TMEFF1/HPP1), a type-I transmembrane protein. TMEFF1 features two Follistatin modules and an EGF-like domain, playing significant roles in embryonic development and tumorigenesis. This antibody specifically recognizes the extracellular Follistatin modules of TMEFF1 and induces programmed cell death (apoptosis) in hematopoietic tumor cell lines (e.g., Jurkat, U937) by activating intracellular signaling pathways. The mechanism of apoptosis induction is unique, involving a rapid rise in intracellular cAMP levels and subsequent activation of Caspase-3. In basic oncology research, this antibody serves as a crucial experimental tool for investigating TMEFF1-mediated cell growth inhibition and apoptotic signaling.
Targets(IC50)	Others
In vitro	In functional bioassays using hematopoietic cell lines (e.g., L1210, U937, Jurkat), treatment with the Anti-TMEFF1/Tomoregulin-1 Antibody (clone C29 or purified IgG against Follistatin modules) resulted in significant induction of apoptosis, as evidenced by genomic DNA fragmentation, annexin-V positive staining, and caspase-3 activation [1].

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