

Product Datasheet

TET1 antibody [GT1462] GRP78

Description	Dioxygenase that specifically binds methylcytosine (5mC), a minor base in mammalian DNA found in repetitive DNA elements that is crucial for retrotransposon silencing and mammalian development. Catalyzes the conversion of methylcytosine (5mC) to 5-hydroxymethylcytosine (hmC). The clear function of 5-hydroxymethylcytosine (hmC) is still unclear but it may influence chromatin structure and recruit specific factors or may constitute an intermediate component in cytosine demethylation. 5-hydroxymethylcytosine (hmC) is present in ES cells and is enriched in the brain, especially in Purkinje neurons. May play a role in the fetal development of heart, lung and brain.	
Species/Host	Mouse	
Reactivity	Human, Mouse	
Conjugation	Unconjugated	
Tested Applications	ChIP, ICC, IF, IHC-P, IP, WB	TET1 antibody [GT1462]
Immunogen	Recombinant protein encompassing a sequence within the cente region of human TET1. The exact sequence is proprietary.	detects TET1 protein at nucleus on HeLa xenograft by immunohistochemical
Form/Appearance	Liquid: PBS	analysis. Sample:
Concentration	1 mg/ml	Paraffin-embedded HeLa xenograft. TET1 antibody
Storage	Store as concentrated solution. Centrifuge briefly prior to openin- vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.	[GT1462] (GRP530) dilution: 1:100.
Note	For research use only.	kDa 250 — 🛥 — 🗲
Isotype	lgG2a	130 — 95 —
Clonality	Monoclonal	72 — 55 —
Purity	Affinity purified by Protein G.	TET1 antibody [GT1462] detects
Clone ID	GT1462	TET1 protein by western blot
Uniprot ID	Q8NFU7	analysis.A. 50 ?g whole cell lysate/extract from 293T
Entrez	80312	cells transfected with scramble siRNA B. 50 ?g
Dilution Range	WB: 1:500-1:3000,ICC: 1:100-1:1000,IHC-P: 1:100-1:1000,IP: 1:100-1:500	whole cell lysate/extract from TET1-knockdowned 293T cells6%