

Recombinant Human TET2, GST-tagged

Cat. No. TET2-160H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TET2 (1197-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1197-end a.a.
Description	TET2 is a methylcytosine dioxygenase that catalyzes the conversion of methylcytosine to 5-hydroxymethylcytosine which is involved in myelopoiesis. Defects in TET2 gene have been associated with several myeloproliferative disorders. TET2 play an important role in embryonic stem cell maintenance and inner cell mass cell specification. TET proteins have potential roles in epigenetic regulation through modification of 5mC to 5hmC. TET2 enzymatic activity is involved in myeloid tumorigenesis and this could be valuable as a diagnostic and prognostic tool for targeted therapies and to assess responses to anticancer drugs.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~124 kDa
Purity	>70% by densitometry

 Tel: 1-631-559-9269 1-516-512-3133

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Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	TET2 tet methylcytosine dioxygenase 2 [Homo sapiens]
Official Symbol	TET2
Synonyms	TET2; tet methylcytosine dioxygenase 2; KIAA1546 , tet oncogene family member 2; methylcytosine dioxygenase TET2; FLJ20032; tet oncogene family member 2; probable methylcytosine dioxygenase TET2; MDS; KIAA1546; MGC125715;
Gene ID	54790
mRNA Refseq	NM_001127208
Protein Refseq	NP_001120680
MIM	612839
UniProt ID	Q6N021
Chromosome Location	4q24

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Function

metal ion binding; methylcytosine dioxygenase activity; methylcytosine dioxygenase activity; oxidoreductase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen;

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