

Datasheet for 009-001-U14S**TET2 protein-GST fusion****Overview**

Description:	TET2 recombinant protein-GST fusion protein - 009-001-U14S
Item No.:	009-001-U14S
Size:	20 µg
Reactivity:	H. sapiens (Human)
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	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 (1). 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 (2). TET2 Protein is ideal for investigators involved in Signaling Proteins, Methylcytosine Dioxygenase Proteins, Cancer, and Cell Cycle research.
Synonyms:	Nbla00191, KIAA1546, MDS, Methylcytosine dioxygenase TET2
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	TET2
Reactivity:	H. sapiens (Human)
Purity/Specificity:	Recombinant human TET2 (1197-end) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >75% by densitometry.

Relevant Links:

- [NCBI - NM_001127208](#)

Application Details

Application Note: TET2 Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. TET2 Protein is suitable for use in Western Blot. Expect a band approximately ~124kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 µg/µL

Buffer: See application note.

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store product at -70°C. 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.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

