TRA2B Protein, Human (Baculovirus, His-Myc)

Cat. No.:	HY-P72056
Synonyms:	arginine/serine-rich 10; Arginine/serine-rich splicing factor 10; hTRA2-beta; SFRS10; Splicing factor; Splicing factor arginine/serine rich 10; SRFS10; TRA-2 beta; TRA2-beta; Tra2b; TRA2B_HUMAN; TRAN2B; Transformer 2 beta homolog; Transformer-2 protein homolog B; Transformer-2 protein homolog beta; Transformer-2-beta
Species:	Human
Source:	Sf9 insect cells
Accession:	P62995 (S2-Y288)
Gene ID:	6434
Molecular Weight:	Approximately 37.6 kDa

PROPERTIES

AA Sequence	S D S G E Q N Y G E R E S R S A S R S G S A H G S G K S A R H T P A R S R S K E D S R R S R S K S R S R S E S R S R S R R S S R R H Y T R S R S R S R S H R R S R S R S Y S R D Y R R R H S H S H S P M S T R R R H V G N R A N P D P N C C L G V F G L S L Y T T E R D L R E V F S K Y G P I A D V S I V Y D Q Q S R R S R G F A F V Y F E N V D D A K E A K E R A N G M E L D G R R I R V D F S I T K R P H T P T P G I Y M G R P T Y G S S R R R D Y Y D R G Y D R G Y D D R D Y Y S R S Y R G G G G G G G G W R A A Q D R D Q I Y R R R S P S P Y Y S R G G Y R S R S R S R S Y S P R R Y
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of Tris-based buffer, 50% Glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	TRA2B protein, a sequence-specific RNA-binding factor, intricately modulates pre-mRNA splicing, exhibiting the capability to either activate or suppress exon inclusion. In collaboration with RBMX, it plays a pivotal role in promoting exon 7 inclusion of the survival motor neuron SMN2, showcasing its diverse regulatory functions. Additionally, TRA2B takes part in the splicing of MAPT/Tau exon 10, showcasing its involvement in shaping pre-mRNA splicing patterns. By counteracting the

effects of splicing regulators like RBMX and binding to the AG-rich SE2 domain in SMN exon 7 RNA, TRA2B exerts a nuanced influence on RNA processing. It is an integral part of a pre-mRNA exonic splicing enhancer (ESE) complex, alongside TRA2B/SFRS10, SNRNP70, SNRPA1, and SRRM1. Further interactions with A3 enhancer proteins SFRS4, SFRS5, SFRS6, and SFRS9, as well as binding to CPSF6, RBMY1A1, RBMX, RNPS1, and phosphorylated SFRS13A, underscore the intricate network through which TRA2B modulates splicing. Its interactions with SAFB/SAFB1, ILDR1, and ILDR2 further contribute to the multifaceted regulatory landscape of TRA2B in RNA processing.

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