

Product datasheet

Recombinant Human TR2-11 protein ab159745

1 Image

Overview

Product name	Recombinant Human TR2-11 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	<p>MATIEEIAHQIIEQQMGEIVTEQQTGQKIQIVTALDHNTQG KQFILTNDH GSTPSKVILARQDSTPGKVFLTTPDAAGVNQLFFTPD LSAQHLQLLTDN SPDQGPNKVFDLCVCGDKASGRHYGAVTCEGCKG FFKRSIRKNLVYSCR GSKDCIINKHHRNRCQYCRLQRCIAFGMKQDSVQCER KPIEVSREKSSNC AASTEKMYRKDLRSPLTATPTFVTDSESTRSTGLLDG MFMNIHPSGVK TESAVLMTSDKAESCQGDLSLANVVTSLANLGKTKD LSQNSNEMSMIES LSNDDTSLCEFQEMQTNGDVSRAFDLAKALNPGEST ACQSSVAGMEGSV HLITGDSSINYTEKEGPLLSDSHVAFRLTMPSPMPEYLN VHYIGESASRL LFLSMHWALSIPSFQALGQENSISLVKAYWNEFLTGL AQCWQVMNVATILATFVNCLHNSLQQAEG</p>
Amino acids	1 to 467
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab159745** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

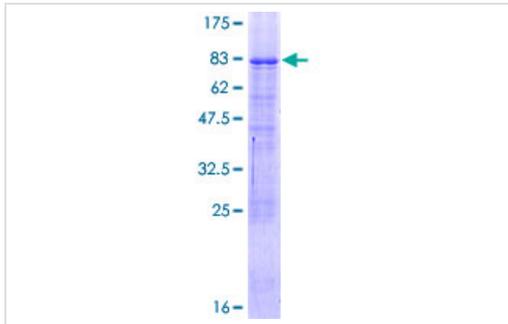
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
------------------------------	--

General Info

Function	Orphan nuclear receptor. Binds the IR7 element in the promoter of its own gene in an autoregulatory negative feedback mechanism. Primarily repressor of a broad range of genes. Binds to hormone response elements (HREs) consisting of two 5'-AGGTCA-3' half site direct repeat consensus sequences. Together with NR2C2, forms the core of the DRED (direct repeat erythroid-definitive) complex that represses embryonic and fetal globin transcription. Also activator of OCT4 gene expression. May be involved in stem cell proliferation and differentiation. Mediator of retinoic acid-regulated preadipocyte proliferation.
Sequence similarities	Belongs to the nuclear hormone receptor family. NR2 subfamily. Contains 1 nuclear receptor DNA-binding domain.
Post-translational modifications	Sumoylation requires both PIAS1 and UBE2I. Sumoylation appears to dissociate NR2C1 from the PML nuclear bodies. Enhances the interaction with NRIP1 but inhibits interaction with KAT2B. In proliferating cells, stimulation by all-trans retinoic acid, activation of MAPK1-mediated phosphorylation and recruitment to PML bodies with subsequent sumoylation, suppresses OCT4 expression. Phosphorylated on several serine and threonine residues. Phosphorylation on Thr-222, stimulated by all-trans retinoic acid (atRA) mediates PML location and sumoylation in proliferating cells which then modulates its association with effector molecules, KAT2B and NRIP1. Phosphorylation on Ser-581 by PKC is important for protein stability and function as activator of RARB.
Cellular localization	Nucleus. Nucleus > PML body. Recruited by HDAC3, after all-trans retinoic acid stimulated MAPK1-mediated Thr-223 phosphorylation, to PML bodies for subsequent sumoylation.

Images



ab159745 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human TR2-11 protein
(ab159745)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors