



Rat Anti-TNRC6ABC monoclonal antibody, clone 8B0 (CABT-RM136)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects human Trinucleotide repeat-containing gene 6A, 6B, and 6C proteins. It target epitopes with in RRM domains.
Target	TNRC6ABC
Immunogen	Recombinant RRM domain regions from human TNRC6A, TNRC6B, and TNRC6C.
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Human
Clone	8B0
Purification	Protein G purified
Conjugate	unconjugated
Applications	IF, IP, WB
Molecular Weight	~175-210 kDa observed; 210.30,194.00, 175.96 kDa for TNRC6A, 6B, and 6C, respectively. Uncharacterized bands may be observed in some lysate(s).
Format	Liquid
Size	100 µg
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide

BACKGROUND

Introduction

Trinucleotide repeat-containing gene 6A, 6B, and 6C proteins are encoded by the TNRC6A, TNRC6B, and TNRC6C genes respectively in human. TNRC6 proteins are ubiquitously distributed and play a role in RNA-mediated gene silencing by both micro-RNAs (miRNAs) and short interfering RNAs (siRNAs). TNRC6 proteins are required for miRNA-dependent repression of translation and for siRNA-dependent endonucleolytic cleavage of complementary mRNAs by argonaute family proteins. They also serve as scaffolding proteins and associate with argonaute proteins bound to partially complementary mRNAs. They can simultaneously recruit CCR4-NOT and PAN deadenylase complexes. TNRC6 proteins are predominantly found in the cytoplasm under steady state conditions, however, they are also found in the nucleus and their nuclear import is mediated via the importin pathways. TNRC6A is shown to possess both nuclear localization (NLS) as well as a nuclear export signal (NES). In case of mutated NES, TNRC6A is shown to be retained in the nucleus. TNRC6 proteins contain RRM domains (aa 1781-1853; 1648-1720; and 1563-1632 for TNRC6A, 6B, and 6C, respectively).

Keywords

TNRC6A; TNRC6B; TNRC6C; TNRC6; GW1; CAGH26; KIAA1460; KIAA1093; KIAA1582; Trinucleotide repeat-containing gene 6A; Trinucleotide repeat-containing gene 6B; Trinucleotide repeat-containing gene 6C; CAG repeat protein 26; EMSY interactor protein; GW182 autoantigen; Protein GW1; Glycine-tryptophan protein of 182 kDa

GENE INFORMATION

Entrez Gene ID

[27327](#)
[23112](#)
[57690](#)

UniProt ID

[Q8NDV7](#)
[Q9UPQ9](#)
[Q9HCJ0](#)
