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RAET1E Antibody
Catalog # ASC11930

Specification

RAET1E Antibody - Product Information

Application	**WB, E**
Primary Accession	P84103
Other Accession	NP_631904, 21040249
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 29 kDa** **Observed: 29 kDa KDa**
Application Notes	**RAET1E antibody can be used for detection of RAET1E by Western blot at 1 - 2 µg/ml.**

RAET1E Antibody - Additional Information

Gene ID **135250**

Target/Specificity
RAET1E; RAET1E antibody is human and mouse reactive. At least four isoforms of RAET1E are known to exist; this antibody will detect all four.

Reconstitution & Storage
RAET1E antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
RAET1E Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

RAET1E Antibody - Protein Information

Name SRSF3

Synonyms SFRS3, SRP20

Function
Splicing factor, which binds the consensus motif 5'- C[ACU][AU]C[ACU][AC]C-3' within pre-mRNA and promotes specific exons inclusion during alternative splicing (PubMed:17036044, PubMed:26876937, PubMed:32440474). Interaction with YTHDC1, a RNA- binding protein that recognizes and binds N6-methyladenosine (m6A)-containing RNAs, promotes recruitment of SRSF3 to its mRNA-binding elements adjacent to m6A sites within exons (PubMed:26876937). Also functions as an adapter involved in mRNA nuclear export (PubMed:11336712,

PubMed:18364396, PubMed:28984244). Binds mRNA which is thought to be transferred to the NXF1-NXT1 heterodimer for export (TAP/NXF1 pathway); enhances NXF1-NXT1 RNA-binding activity (PubMed:11336712, PubMed:18364396). Involved in nuclear export of m6A- containing mRNAs via interaction with YTHDC1: interaction with YTHDC1 facilitates m6A-containing mRNA-binding to both SRSF3 and NXF1, promoting mRNA nuclear export (PubMed:28984244).

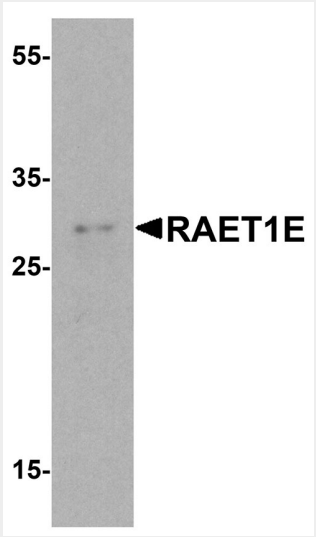
Cellular Location
Nucleus. Nucleus speckle. Cytoplasm. Note=Recruited to nuclear speckles following interaction with YTHDC1.

RAET1E Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RAET1E Antibody - Images



Western blot analysis of RAET1E in EL4 cell lysate with RAET1E antibody at 1 µg/ml.

RAET1E Antibody - Background

The Retinoic acid early transcript 1E (RAET1E) belongs to the RAET1 family, which consists of major histocompatibility complex (MHC) class I-related genes located in a cluster on chromosome 6q24.2-q25.3 (1). Like the related protein RAET1G, RAET1E differs from other RAET1 proteins in that

they have type I membrane-spanning sequences at their carboxy termini rather than glycosylphosphatidylinositol anchor sequences (2). RAET1E functions as a ligand for NKG2D receptor, which is expressed on the surface of several types of immune cells, and is involved in innate and adaptive immune responses (1,3).

RAET1E Antibody - References

Radosavlijevic M, Cuillerier B, Wilson MJ, et al. A cluster of ten novel MHC class I related genes on human chromosome 6q24.2-q25.3. Genomics 2002; 79:114-23.
Bacon L, Eagle RA, Meyer M, et al. Two human ULBP/RAET1 molecules with transmembrane regions are ligands for NKG2D. J. Immunol. 2004; 173:1078-84.
Letal, a tumor-associated NKG2D immunoreceptor ligand, induces activation and expansion of effector immune cells. Cancer Biol. Ther. 2003; 2:446-51.