

For Research Use Only

RAI1 Polyclonal antibody, PBS Only

Catalog Number:17084-1-PBS



Basic Information

Catalog Number:

17084-1-PBS

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9046

GenBank Accession Number:

BC021209

GeneID (NCBI):

10743

UNIPROT ID:

Q7Z5J4

Full Name:

retinoic acid induced 1

Calculated MW:

1906aa,203 kDa; 966aa,104 kDa

Observed MW:

250-260 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human

Background Information

The RAI1 (Retinoic Acid Induced 1) gene is located on the short arm of chromosome 17. The RAI1 protein it encodes is a crucial transcriptional regulator, playing a central role in processes such as neurodevelopment, sleep regulation, circadian rhythms, and energy metabolism. This protein contains a chromatin domain that binds to specific DNA sequences and recruits other transcriptional co-factors to activate or repress the expression of downstream target genes. The RAI1 gene is extremely sensitive to haploinsufficiency, and its dysfunction is closely linked to several severe neurodevelopmental disorders. For instance, RAI1 haploinsufficiency causes Smith-Magenis syndrome, while duplication of the RAI1 gene is associated with Potocki-Lupski syndrome. Consequently, the RAI1 protein is a key molecule for understanding brain function and behavioral regulation, and a major focus of research for related genetic syndromes.

Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

For technical support and original validation data for this product please contact:

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