10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AUTS2 Antibody (C-Term)

Peptide-affinity purified goat antibody
Catalog # AF2863a

Specification

AUTS2 Antibody (C-Term) - Product Information

Application	**E**
Primary Accession	Q8WXX7
Other Accession	NP_056385.1, NP_001120703.1, 26053, 319974 (mouse)
Predicted	**Human, Mouse, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**138982**

AUTS2 Antibody (C-Term) - Additional Information

Gene ID 26053

Other Names
Autism susceptibility gene 2 protein, AUTS2, KIAA0442

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
AUTS2 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

AUTS2 Antibody (C-Term) - Protein Information

Name AUTS2

Synonyms KIAA0442

Function
Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility (PubMed:<a href="http://www.uniprot.org/citations/25519132"

target="_blank">25519132). The PRC1-like complex that contains PCGF5, RNF2, CSNK2B, RYBP and AUTS2 has decreased histone H2A ubiquitination activity, due to the phosphorylation of RNF2 by CSNK2B (PubMed:25519132). As a consequence, the complex mediates transcriptional activation (PubMed:25519132). In the cytoplasm, plays a role in axon and dendrite elongation and in neuronal migration during embryonic brain development. Promotes reorganization of the actin cytoskeleton, lamellipodia formation and neurite elongation via its interaction with RAC guanine nucleotide exchange factors, which then leads to the activation of RAC1 (By similarity).

Cellular Location
Nucleus. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:A0A087WPF7}. Cell projection, growth cone {ECO:0000250|UniProtKB:A0A087WPF7}. Note=Detected both in cytoplasm and nucleus. Colocalizes with RAC1 at actin-rich growth cones. Detected on the promoter region of actively transcribed genes {ECO:0000250|UniProtKB:A0A087WPF7}

Tissue Location
Strongly expressed in brain, skeletal muscle and kidney. Also expressed in placenta, lung and leukocytes

AUTS2 Antibody (C-Term) - 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

AUTS2 Antibody (C-Term) - Images

AUTS2 Antibody (C-Term) - Background

This antibody is expected to recognize isoforms 1 and 2 (NP_056385.1 and NP_001120703.1 resp.).

AUTS2 Antibody (C-Term) - References

Molecular cytogenetic analysis and resequencing of contactin associated protein-like 2 in autism spectrum disorders. Bakkaloglu B, O'Roak BJ, Louvi A, Gupta AR, Abelson JF, Morgan TM, Chawarska K, Klin A, Ercan-Sencicek AG, Stillman AA, Tanriover G, Abrahams BS, Duvall JA, Robbins EM, Geschwind DH, Biederer T, Gunel M, Lifton RP, State MW. Am J Hum Genet. 2008 Jan;82(1):165-73. PMID: 18179895