

Goat Anti-DYX1C1 (Isoform a) Antibody
Peptide-affinity purified goat antibody
Catalog # AF1349a**Specification**

Goat Anti-DYX1C1 (Isoform a) Antibody - Product Information

Application	WB, IHC
Primary Accession	Q8WXU2
Other Accession	NP_570722 , 161582 , 67685 (mouse)
Reactivity	Human
Predicted	Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	48527

Goat Anti-DYX1C1 (Isoform a) Antibody - Additional Information**Gene ID** 161582**Other Names**

Dyslexia susceptibility 1 candidate gene 1 protein, DYX1C1, EKN1

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, 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

Goat Anti-DYX1C1 (Isoform a) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-DYX1C1 (Isoform a) Antibody - Protein Information**Name** DNAAF4 ([HGNC:21493](#))**Synonyms** DYX1C1, EKN1**Function**

Axonemal dynein assembly factor required for ciliary motility. Involved in neuronal migration during development of the cerebral neocortex. May regulate the stability and proteasomal degradation of the estrogen receptors that play an important role in neuronal differentiation, survival and plasticity.

Cellular Location

Nucleus. Cytoplasm. Dynein axonemal particle. Cell projection, neuron projection
{ECO:0000250|UniProtKB:Q5VJS5}

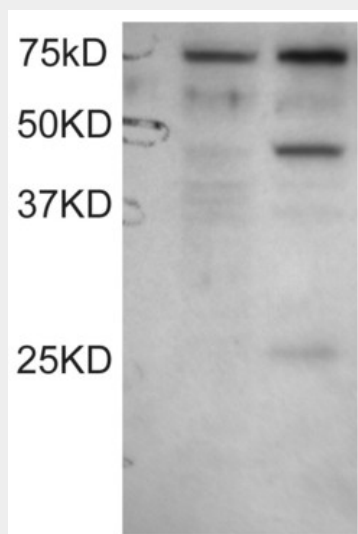
Tissue Location

Expressed in several tissues, including brain, lung, kidney and testis. In brain localizes to a fraction of cortical neurons and white matter glial cells.

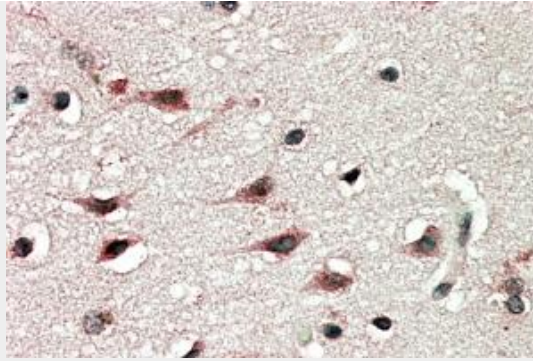
Goat Anti-DYX1C1 (Isoform a) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-DYX1C1 (Isoform a) Antibody - Images

AF1349a staining (0.1 µg/ml) of COS1 cell lysates: untransfected (left lane) and transfected with full length recombinant Human DYX1C1 (right lane). Data kindly provided by Wang and LoTurco, University of Connecticut, USA.



AF1349a (5 µg/ml) staining of paraffin embedded Human Cerebral Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-DYX1C1 (Isoform a) Antibody - Background

This gene encodes a tetratricopeptide repeat domain-containing protein. The encoded protein interacts with estrogen receptors and the heat shock proteins, Hsp70 and Hsp90. A chromosomal translocation involving this gene is associated with a susceptibility to developmental dyslexia. Mutations in this gene are associated with deficits in reading and spelling. Alternate splicing results in multiple transcript variants.

Goat Anti-DYX1C1 (Isoform a) Antibody - References

Dyslexia and DYX1C1: deficits in reading and spelling associated with a missense mutation. Bates TC, et al. Mol Psychiatry, 2009 Nov 10. PMID 19901951.
Functional interaction of DYX1C1 with estrogen receptors suggests involvement of hormonal pathways in dyslexia. Massinen S, et al. Hum Mol Genet, 2009 Aug 1. PMID 19423554.
A novel role for DYX1C1, a chaperone protein for both Hsp70 and Hsp90, in breast cancer. Chen Y, et al. J Cancer Res Clin Oncol, 2009 Sep. PMID 19277710.
Further evidence for DYX1C1 as a susceptibility factor for dyslexia. Dahdouh F, et al. Psychiatr Genet, 2009 Apr. PMID 19240663.
Association of ADHD and the Protogenin gene in the chromosome 15q21.3 reading disabilities linkage region. Wigg KG, et al. Genes Brain Behav, 2008 Nov. PMID 19076634.