



## Rabbit Anti-DYX1C1 antibody

SL13043R

|                               |   |
|-------------------------------|---|
| <b>Product Name:</b>          | DYX1C1  |
| <b>Chinese Name:</b>          | DYX1C1蛋白抗体  |
| <b>Alias:</b>                 | Dyslexia susceptibility 1 candidate 1; Dyslexia susceptibility 1 candidate gene 1 protein; DYX1; DYX1C1; DYXC1; DYXC1 HUMAN; EKN1; FLJ37882; MGC70618; RD.  |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Dog,Cow,Zebrafish,  |
| <b>Applications:</b>          | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 49kDa   |
| <b>Cellular localization:</b> | The nucleuscytoplasmic  |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human DYX1C1:51-120/420   |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.   |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | The gene encoding DYX1C1 maps in the 15q21 region, which is disrupted by a translocation t(2;15)(q11;q21) and segregates with dyslexia. Two sequence changes in DYX1C1, including one involving the translation initiation sequence and an Elk-1 transcription factor binding site (-3G --> A) and a codon (1249G --> T), introduce a premature stop codon and truncate the protein by 4 amino acids. DYX1C1 encodes a nuclear tetratricopeptide repeat domain protein that is dynamically regulated in brain. In |

human brain, DYX1C1 protein localizes to a fraction of cortical neurons and white matter glial cells. It is also expressed in lung, kidney and testis.

**Function:**

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.

**Subunit:**

Interacts with ESR1 and ESR2. Interacts with STUB1.

**Subcellular Location:**

Nucleus. Cytoplasm.

**Tissue Specificity:**

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

**DISEASE:**

Defects in DYX1C1 may be a cause of susceptibility to dyslexia type 1 (DYX1) [MIM:127700]. A relatively common, complex cognitive disorder characterized by an impairment of reading performance despite adequate motivational, educational and intellectual opportunities. It is a multifactorial trait, with evidence for familial clustering and heritability. Note=A chromosomal aberration involving DYX1C1 has been found in a family affected by dyslexia. Translocation t(2;15)(q11;q21).

**Similarity:**

Contains 1 CS domain.  
Contains 3 TPR repeats.

**SWISS:**

Q8WXU2

**Gene ID:**

161582

**Database links:**

[Entrez Gene: 453458](#)Chimpanzee

[Entrez Gene: 161582](#)Human

[Omim: 608706](#)Human

[SwissProt: Q863A7](#)Chimpanzee

[SwissProt: Q863A5](#)Gorilla

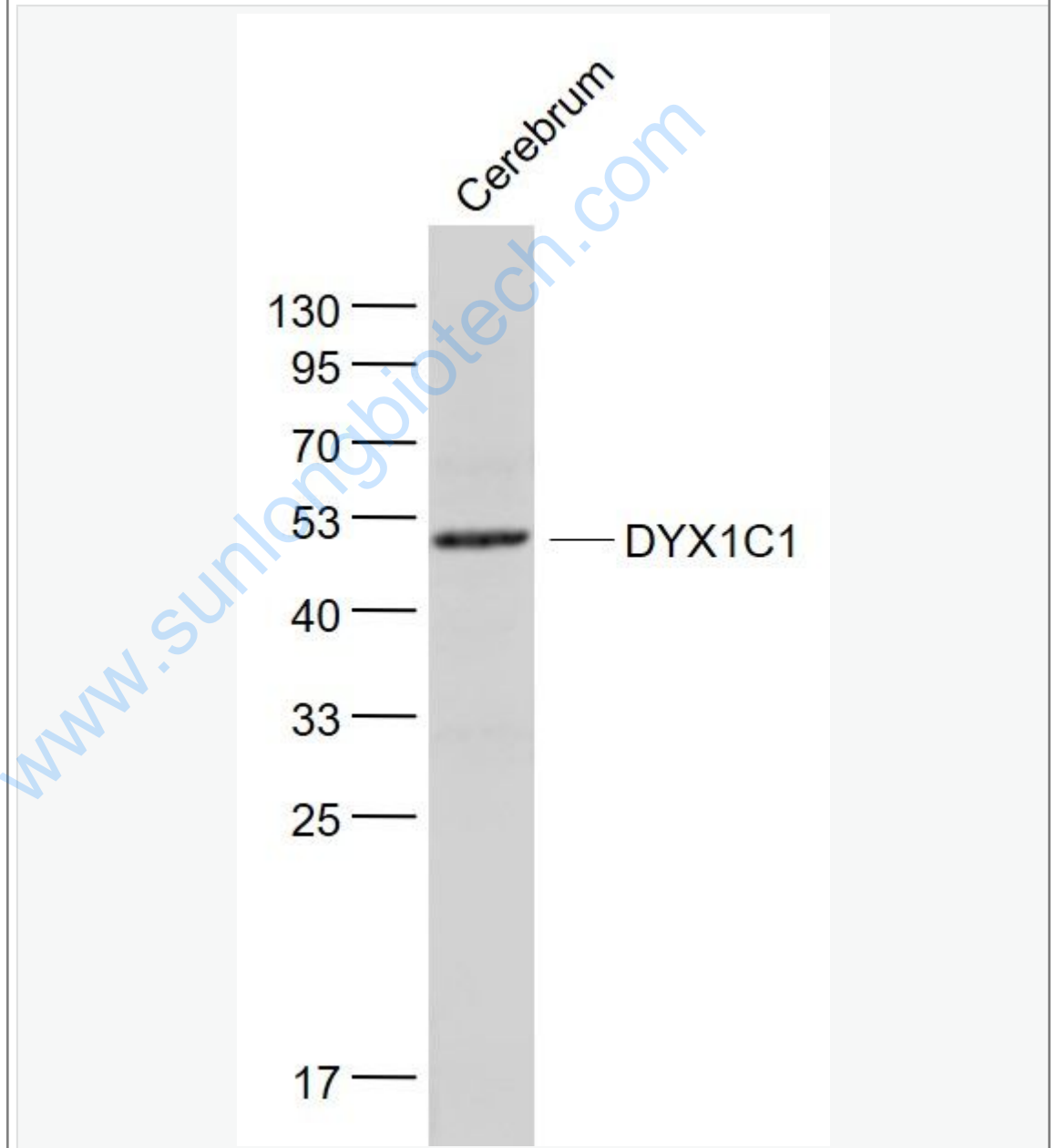
[SwissProt: Q8WXU2](#)Human

[SwissProt: Q863A4](#)Orangutan

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

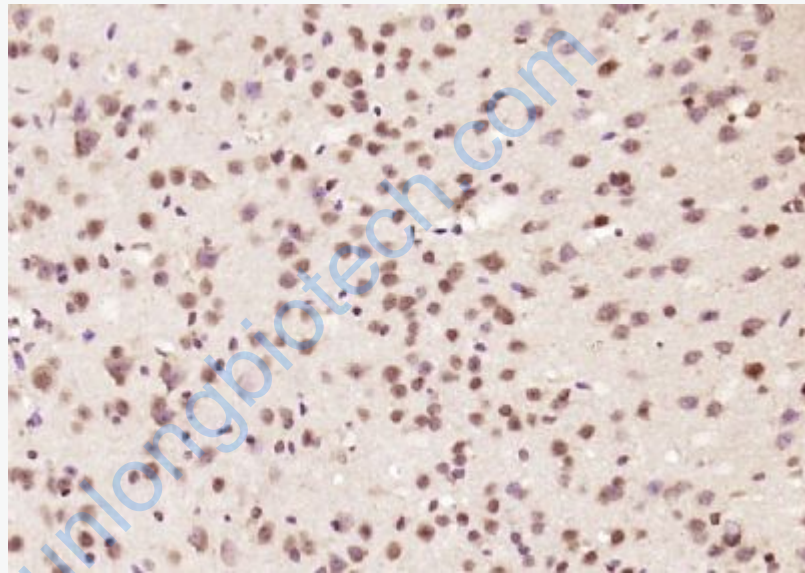
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti- DYX1C1 (SL13043R) at 1/1000 dilution

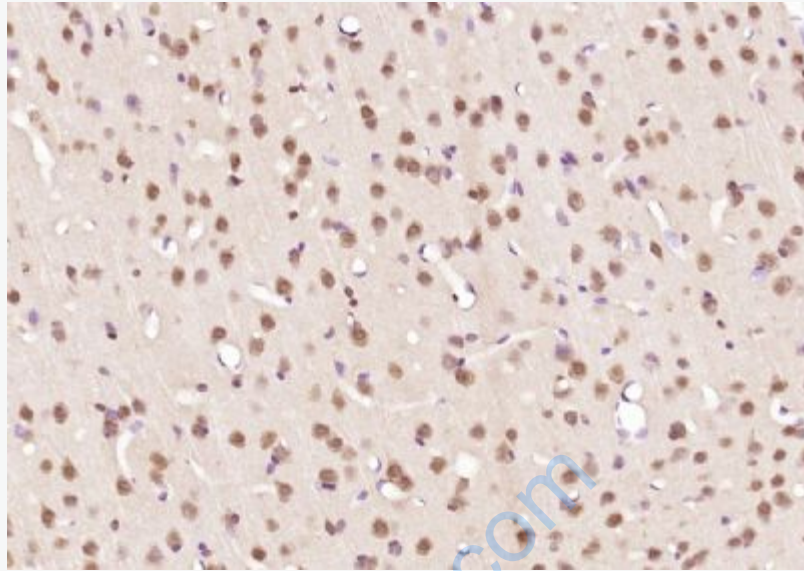
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 49 kD

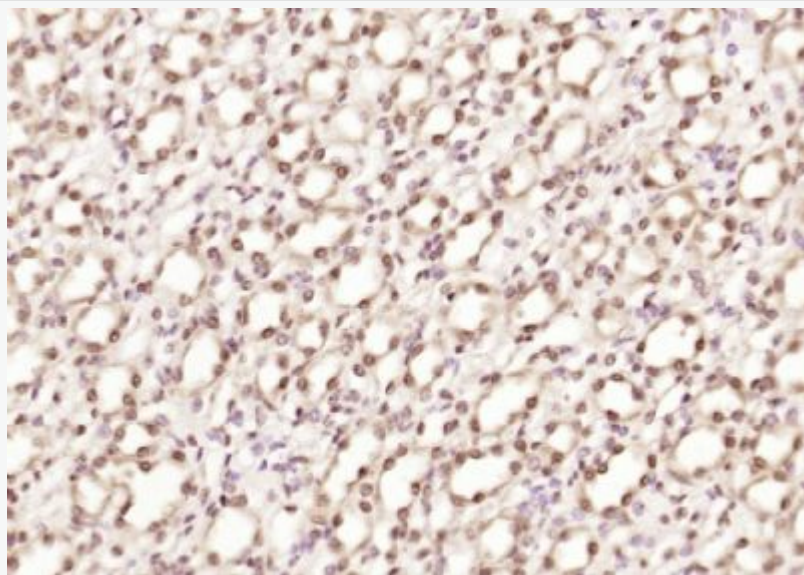
Observed band size: 49 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DYX1C1) Polyclonal Antibody, Unconjugated (SL13043R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DYX1C1) Polyclonal Antibody, Unconjugated (SL13043R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DYX1C1) Polyclonal Antibody, Unconjugated (SL13043R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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