

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human Doublecortin/DCX in direct ELISAs and Western blots. Detects mouse Doublecortin/DCX in immunohistochemistry.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Doublecortin/DCX Met116-Thr293 Accession # O43602
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Doublecortin (DCX) is a 365 aminoacids, 40 kDa microtubule-associated phosphoprotein (MAP) encoded by the DCX gene. DCX is an essential factor in neurogenesis, modulating, stabilizing and stimulating polymerization of microtubules (MTs) to ensure effective migration of neurons of the central and peripheral nervous system during embryonic and postnatal development. Mutations in this protein impairs neuronal migration leading to several pathological conditions.

DCX is very conserved across species. Human and non-human primates DCX proteins are 98-99% identical at the aminoacid level, and 100% identical at the sequences used for immunogen of AF10025; human, mouse and rat DCX aminoacid sequences are 98% identical.

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