

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DLX5 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human DLX4 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 712216
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DLX5 Asn216-Tyr289 Accession # P56178
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

Immunocytochemistry 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

DLX5 (*distal-less* homeobox 5) is a 33-35 kDa member of the distal-less homeobox family of transcription factors. It is expressed in embryonic mesenchyme where it promotes cartilage and bone formation, and in nervous tissue where it promotes interneuron development. Human DLX5 is 289 amino acids (aa) in length. It contains one DNA-binding homeobox domain (aa 137-196) and two phosphorylation sites at Ser34 and Ser217 that, when utilized, increases transcriptional activity. DLX5 likely forms homodimers, and is known to heterodimerize with MSX-2. Over aa 216-289, human DLX5 shares 99% aa identity with mouse DLX5.

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