

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CDX2 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 963809
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human CDX2 Asn54-Thr185 Accession # Q99626
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.
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

Human CDX2 (Caudal type homeobox transcription factor 2) is a 37 kDa member of the caudal family of homeobox proteins. It is 313 amino acids (aa) in length and contains a 167 aa caudal-like activation domain (aa 13-180), a DNA-binding homeodomain (aa 186-245) and two short, poly-glutamine and -proline repeats. CDX2 can exist as a dimer and is regulated by phosphorylation of a 4(x)serine motif that promotes CDX2 degradation. CDX2 promotes intestinal patterning and development. While it is necessary but not sufficient for intestinal phenotype differentiation, it will block cell proliferation on its own. Over the amino acid range used for immunization, human CDX2 is 95% and 97% aa identical to mouse and canine CDX2, respectively.

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