



Rabbit Anti-Human ID3 polyclonal antibody (CABT-L1777)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	ID3
Immunogen	Synthetic peptide corresponding to C-terminus of human ID3 protein.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunoaffinity purified
Conjugate	Unconjugated
Applications	IHC-P
Molecular Weight	14 kDa
Cellular Localization	Nucleus
Positive Control	Breast Carcinoma
Format	Liquid
Buffer	PBS, 1% BSA, pH 7.6
Preservative	< 0.1% Sodium Azide
Storage	2-8°C. Do not freeze. The user must validate any other storage conditions. When properly stored, the reagent is stable to the date indicated on the label. Do not use the reagent beyond the expiration date.

BACKGROUND

Introduction	Members of the Id family of basic helix-loop-helix (bHLH) proteins include ID1, ID2, ID3 and ID4. They are ubiquitously expressed and dimerize with members of the class A and B HLH proteins. Due to the absence of the basic region, the resulting heterodimers cannot bind DNA. The ID-type proteins thus appear to negatively regulate DNA binding of bHLH proteins. Since ID1 inhibits DNA binding of E12 and Myo D, it apparently functions to inhibit muscle-specific gene expression. Under conditions that facilitate muscle cell differentiation, the ID protein levels fall, allowing E12 and/or E47 to form heterodimers with Myo D and myogenin, which in turn activate myogenic differentiation. It has been shown that expression of each of the ID proteins is strongly dependent on growth factor activation and that reduction of ID mRNA levels by antisense oligonucleotides leads to a delayed reentry of arrested cells into the cell cycle following growth factor stimulation.
Keywords	ID3;inhibitor of DNA binding 3;DNA-binding protein inhibitor ID-3;Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein

GENE INFORMATION

Entrez Gene ID	3399
UniProt ID	Q02535