Id1 Conjugated Antibody

Catalog No: #C49637

Package Size: #C49637-AF350 100ul #C49637-AF405 100ul #C49637-AF488 100ul #C49637-AF555 100ul #C49637-AF594 100ul #C49637-AF647 100ul #C49637-AF680 100ul #C49637-AF750 100ul #C49637-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	Id1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	bHLHb24 antibody Class B basic helix-loop-helix protein 24 antibody dJ857M17.1.2 (inhibitor of DNA binding 1, dominant negative helix-loop-helix protein) antibody DNA binding protein inhibitor ID 1 antibody DNA binding protein inhibitor ID1 antibody DNA-binding protein inhibitor ID-1 antibody Dominant negative helix loop helix protein antibody ID 1 antibody ID antibody ID1 antibody ID1_HUMAN antibody Inhibitor of Differentiation 1 antibody Inhibitor of DNA binding 1 antibody inhibitor of DNA binding 1, dominant negative helix-loop-helix protein antibody
Accession No.	Swiss-Prot#:P41134
Uniprot	P41134
GeneID	3397;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	22 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

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.

Note: This product is for in vitro research use only