ALDH1A1/ALDH1A2/ALDH1A3 Conjugated Antibody

Catalog No: #C31974

Package Size: #C31974-AF350 100ul #C31974-AF405 100ul #C31974-AF488 100ul #C31974-AF555 100ul #C31974-AF594 100ul #C31974-AF647 100ul #C31974-AF680 100ul #C31974-AF750 100ul #C31974-Biotin 100ul

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Description

Product Name	ALDH1A1/ALDH1A2/ALDH1A3 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification
Species Reactivity	Hu, Ms
Immunogen Description	Fusion protein of human ALDH1A1/ALDH1A2/ALDH1A3
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Target Name	ALDH1A1/ALDH1A2/ALDH1A3
Other Names	ALDC, ALDH1, PUMB1, ALDH11, RALDH1, ALDH-E1; RALDH2, RALDH2-T, RALDH(II); ALDH6, RALDH3, ALDH1A6
Accession No.	Swiss-Prot#: Q15102NCBI Protein#: BC001505/BC030589/BC069274
Uniprot	Q15102
GeneID	5050;
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	57 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at -20°C/1 year

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

This protein belongs to the aldehyde dehydrogenase family of proteins. The product of this gene is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that this enzyme and the cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida. Four transcript variants encoding distinct isoforms have been identified for this gene.

Note: This product is for in vitro research use only