

Anti-CES3/Carboxylesterase 3 Antibody (9E513)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9E513
Purification:	Protein A

Applications

	Anti-CES3 rabbit monoclonal antibody at 1:500 dilution. -Lane A: Hela Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary
Verified Activity:	-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:62 kDa. -Observed band size:54 kDa
Application:	ELISA,WB
Recommended	WB: 1:500-1:2000; ELISA: 1:5000-1:10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human CES3 / Carboxylesterase 3 protein
Antigen Species:	Human
Synonyms:	ES31;FLJ21736;UNQ869/PRO1887;Carboxylesterase 3;Carboxylesterase3;CES 3;CES3
Biology Area:	Serine Proteases and Regulators

Research Background

Carboxylesterases hydrolyze esters of short-chain fatty acids and have roles in animals ranging from signal transduction to xenobiotic detoxification. In enzymology, a carboxylesterase is an enzyme that catalyzes the chemical reaction: a carboxylic ester + H₂O = an alcohol + a carboxylate. Most enzymes from this group belong to the superfamily of hydrolases with alpha/beta protein fold (so called Alpha/beta hydrolase fold), specifically those acting on carboxylic ester bonds. The carboxylesterase family of evolutionarily related proteins (those with clear sequence homology to each other) includes a number of proteins with different substrate specificities, such as acetylcholinesterases. Carboxylesterase 3, also known as Liver carboxylesterase 31 homolog and CES3, is a endoplasmic reticulum lumen which belongs to the type-B carboxylesterase/lipase family. CES3 is involved in the detoxification of xenobiotics and in the activation of ester and amide prodrugs. CES3 shows low catalytic efficiency

A DRUG SCREENING EXPERT

for hydrolysis of CPT-11, a prodrug for camptothecin used in cancer therapeutics. CES3 is expressed in liver, colon and small intestine.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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