



DHB12 Monoclonal Antibody

Catalog No	YP-mAb-05579
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	HSD17B12
Protein Name	Estradiol 17-beta-dehydrogenase 12 (EC 1.1.1.62) (17-beta-hydroxysteroid dehydrogenase 12) (17-beta-HSD 12) (3-ketoacyl-CoA reductase) (KAR) (EC 1.3.1.-)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	DHB12 Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	34kD
Cell Pathway	Endoplasmic reticulum membrane ; Multi-pass membrane protein .
Tissue Specificity	Expressed in most tissues tested. Highly expressed in the ovary and mammary. Expressed in platelets.
Function	catalytic activity:Estradiol-17-beta + NAD(P)(+) = estrone + NAD(P)H.,domain:The di-lysine motif confers endoplasmic reticulum localization for type I membrane proteins.,function:Catalyzes the transformation of estrone (E1) into estradiol (E2), suggesting a central role in estrogen formation. Its strong expression in ovary and mammary gland suggest that it may constitute the major enzyme responsible for the conversion of E1 to E2 in women. Also has 3-ketoacyl-CoA reductase activity, reducing both long chain 3-ketoacyl-CoAs and long chain fatty acyl-CoAs, suggesting a role in long fatty acid elongation.,pathway:Lipid metabolism; fatty acid biosynthesis.,pathway:Steroid biosynthesis; estrogen biosynthesis.,similarity:Belongs to the short-chain dehydrogenases/reductases (SDR) family. 17-beta-HSD 3 subfamily.,tissue specificity:Expressed in most tissues tested. Highly expressed in the ovary
Background	This gene encodes a very important 17beta-hydroxysteroid dehydrogenase (17beta-HSD) that converts estrone into estradiol in ovarian tissue. This enzyme



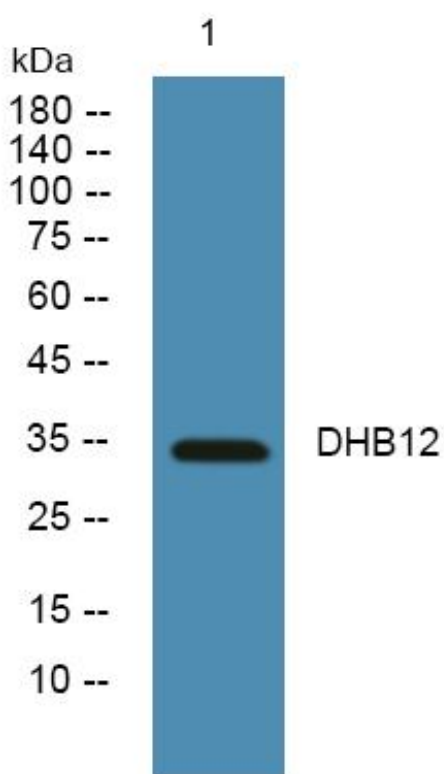
is also involved in fatty acid elongation. [provided by RefSeq, Oct 2011],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

Western Blot analysis of various cells using DHB12 Monoclonal Antibody