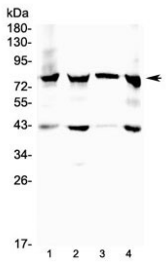
17-beta-Hydroxysteroid dehydrogenase 4 Antibody (HSD17B4) (R30817)

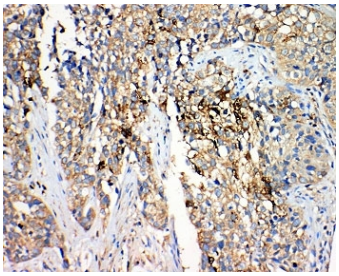
Catalog No.	Formulation	Size
R30817	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

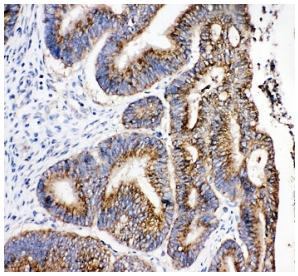
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	F5HE57
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml
Limitations	This 17-beta-Hydroxysteroid dehydrogenase 4 antibody is available for research use only.



Western blot testing of 17-beta-Hydroxysteroid dehydrogenase 4 antibody and Lane 1: mouse heart; 2: rat heart; 3: human placenta 4: human MCF7 lysate. Predicted molecular weight ~80 kDa.



IHC-P: 17-beta-Hydroxysteroid dehydrogenase 4 antibody testing of human lung cancer tissue. Required HIER: steam section in pH6 citrate buffer for 20 min.



IHC-P: 17-beta-Hydroxysteroid dehydrogenase 4 antibody testing of human intestinal cancer tissue. Required HIER: steam section in pH6 citrate buffer for 20 min.

Description

The HSD17B4 gene encodes an enzyme involved in peroxisomal fatty acid beta-oxidation. It was first identified as a 17-beta-estradiol dehydrogenase. Peroxisomal beta-oxidation of fatty acids is catalyzed by 3 enzymes: acyl-CoA oxidase; the D-bifunctional enzyme with enoyl-CoA-hydratase and D-3-hydroxyacyl-CoA dehydrogenase activity, and 3-ketoacyl-CoA thiolase. The D- and L-bifunctional proteins have different substrate specificities. The D-bifunctional protein catalyzes the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl-branched-chain fatty acids and also acts in shortening cholesterol for bile acid formation. In contrast, the L-specific bifunctional protein does not have the latter 2 activities.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the 17-beta-Hydroxysteroid dehydrogenase 4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human HSD17B4 (NIMLSQKLQMILKDYAKL) was used as the immunogen for this 17-beta-Hydroxysteroid dehydrogenase 4 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the 17-beta-Hydroxysteroid dehydrogenase 4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.