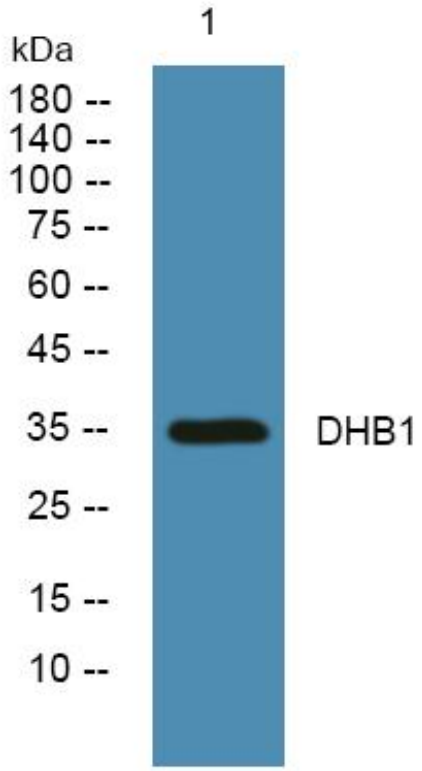
DHB1 Monoclonal Antibody

Catalog No	BYmab-05578
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	HSD17B1 E17KSR EDH17B1 EDH17B2 EDHB17
Protein Name	Estradiol 17-beta-dehydrogenase 1 (EC 1.1.1.62) (17-beta-hydroxysteroid dehydrogenase type 1) (17-beta-HSD 1) (20 alpha-hydroxysteroid dehydrogenase) (20-alpha-HSD) (E2DH) (Placental 17-beta-hydroxyst
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	DHB1 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 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	36kD
Cell Pathway	Cytoplasm.
Tissue Specificity	Brain,Placenta,Skin,
Function	catalytic activity:Estradiol-17-beta + NAD(P)(+) = estrone + NAD(P)H.,function:Favors the reduction of estrogens and androgens. Also has 20-alpha-HSD activity. Uses preferentially NADH.,online information:The Singapore human mutation and polymorphism database,pathway:Steroid biosynthesis; estrogen biosynthesis.,similarity:Belongs to the short-chain dehydrogenases/reductases (SDR) family.,subunit:Homodimer.,
Background	hydroxysteroid 17-beta dehydrogenase 1(HSD17B1) Homo sapiens This gene encodes a member of the 17beta-hydroxysteroid dehydrogenase family of short-chain dehydrogenases/reductases. It has a dual function in estrogen activation and androgen inactivation and plays a major role in establishing the

	estrogen E2 concentration gradient between serum and peripheral tissues. The encoded protein catalyzes the last step in estrogen activation, using NADPH to convert estrogens E1 and E2 and androgens like 4-androstenedione, to testosterone. It has an N-terminal short-chain dehydrogenase domain with a cofactor binding site, and a narrow, hydrophobic C-terminal domain with a steroid substrate binding site. This gene is expressed primarily in the placenta and ovarian granulosa cells, and to a lesser extent, in the endometrium, adipose tissue, and prostate. Polymorphisms in this gene have been linked to breast and prostate cancer. A pseudogene of this gene has
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 DHB1 Monoclonal Antibody