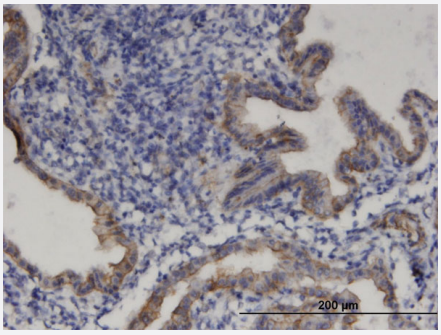
PRODH monoclonal antibody (M01), clone 3A9

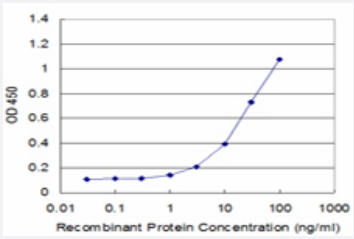
Catalog # H00005625-M01 Size 100 ug

Applications



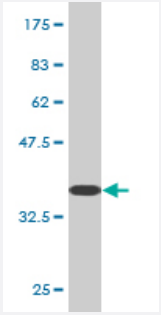
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to PRODH on formalin-fixed paraffin-embedded human endometrium. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PRODH is approximately 1ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PRODH.

Immunogen	PRODH (NP_057419, 441 a.a. ~ 540 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	LVRGAYLAQERARAAEIGYEDPINPTYEATNAMYHRCLDYVLEELKHNAKAKVMVASHNEDTVRF ALRRMEELGLHPADHRVYFGQLLGMCDQISFPLGQ
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (86)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunoperoxidase of monoclonal antibody to PRODH on formalin-fixed paraffin-embedded human endometrium. [antibody concentration 3 ug/ml]

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged PRODH is approximately 1ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — PRODH

Entrez GeneID	5625

GeneBank Accession#	NM_016335
Protein Accession#	NP_057419
Gene Name	PRODH
Gene Alias	FLJ33744, HSPOX2, MGC148078, MGC148079, PIG6, POX, PRODH1, PRODH2, SCZD4, TP53I6
Gene Description	proline dehydrogenase (oxidase) 1
Omim ID	239500 606810
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a mitochondrial proline dehydrogenase that catalyzes the first step in proline degradation. Defects in this gene are a cause of hyperprolinemia type 1 and possibly susceptibility to schizophrenia 4 (SCZD4). The gene is located on chromosome 22q11.21, a region which has also been associated with the contiguous gene deletion syndromes DiGeorge syndrome and CATCH22 syndrome. [provided by RefSeq
Other Designations	OTTHUMP00000196495|proline dehydrogenase 1|proline oxidase 2|proline oxidase, mitochondrial|tumor protein p53 inducible protein 6

Pathway

- Arginine and proline metabolism
- Metabolic pathways

Disease

- Amino Acid Metabolism
- Autistic Disorder
- Bipolar Disorder
- Cognition
- DiGeorge syndrome
- Dominance
- Genetic Predisposition to Disease
- Memory

- Mental Disorders
- Mental Retardation
- Psychotic Disorders
- Schizophrenia
- Schizophrenic Psychology
- Schizotypal Personality Disorder
- Startle Reaction
- Verbal Learning