

Product datasheet for **CF500612**

Cytochrome P450 Reductase (POR) Mouse Monoclonal Antibody [Clone ID: OTI5B3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5B3
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:50, IF 1:50, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human POR (NP_000932) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	76.9 kDa
Gene Name:	Homo sapiens cytochrome p450 oxidoreductase (POR), transcript variant 2, mRNA.
Database Link:	NP_000932 Entrez Gene 18984 Mouse Entrez Gene 29441 Rat Entrez Gene 5447 Human P16435



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Background:

This gene encodes an endoplasmic reticulum membrane oxidoreductase with an FAD-binding domain and a flavodoxin-like domain. The protein binds two cofactors, FAD and FMN, which allow it to donate electrons directly from NADPH to all microsomal P450 enzymes. Mutations in this gene have been associated with various diseases, including apparent combined P450C17 and P450C21 deficiency, amenorrhea and disordered steroidogenesis, congenital adrenal hyperplasia and Antley-Bixler syndrome. [provided by RefSeq]

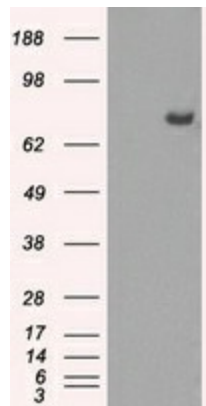
Synonyms:

CPR; CYPOR; P450R

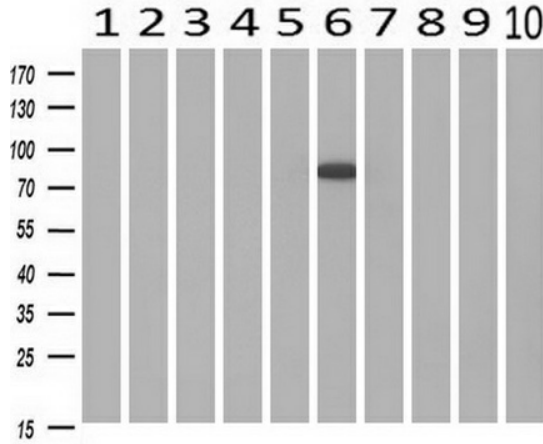
Protein Families:

Druggable Genome, P450, Transmembrane

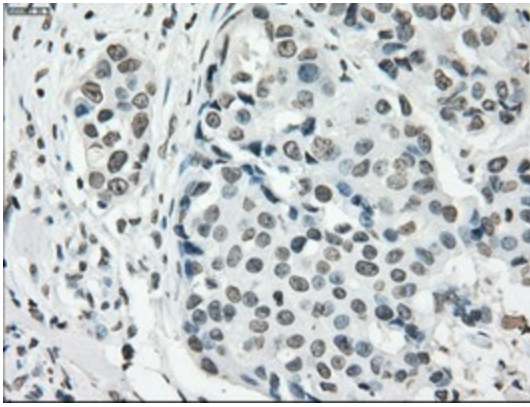
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY POR (Cat# [RC202172], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-POR antibody (Cat# [TA500612]). Positive lysates [LY424436] (100ug) and [LC424436] (20ug) can be purchased separately from OriGene.



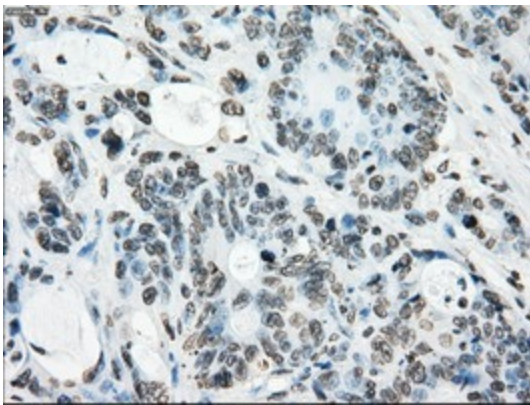
Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-POR monoclonal antibody at 1:500 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon; 10: spleen).



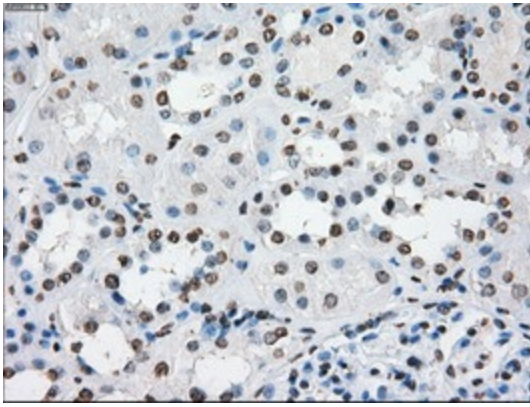
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



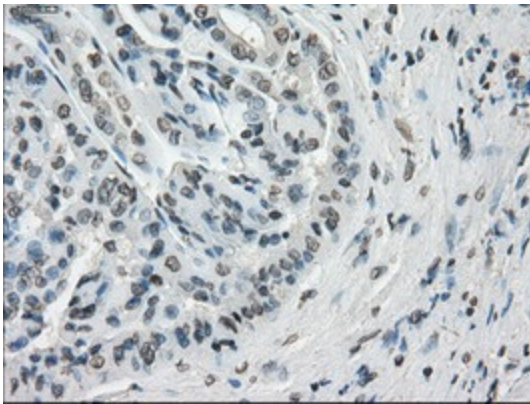
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



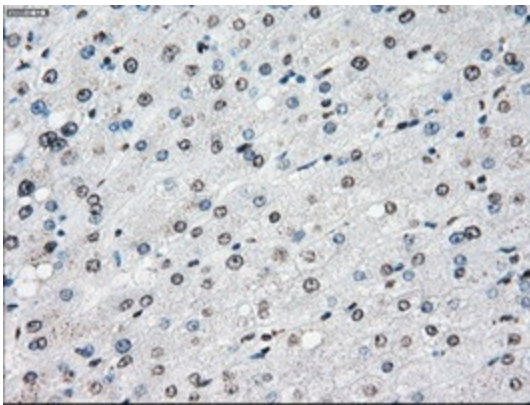
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



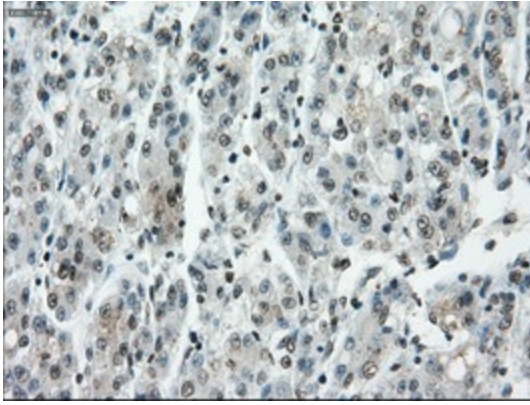
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



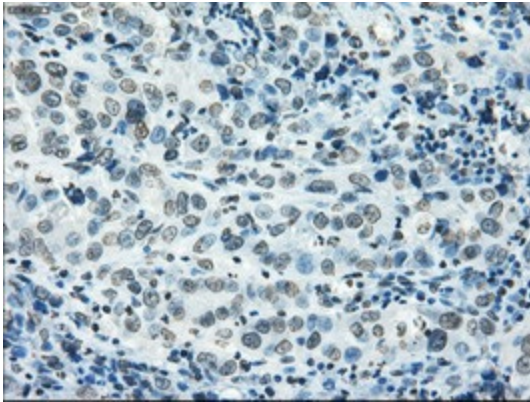
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



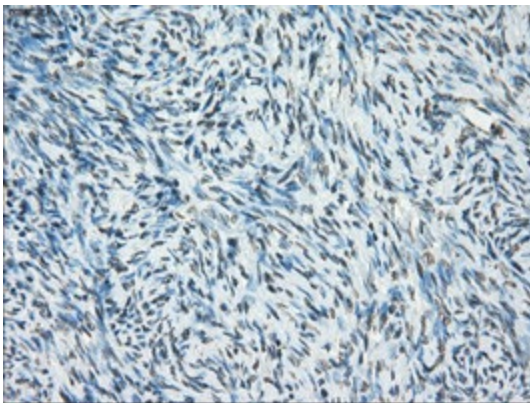
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



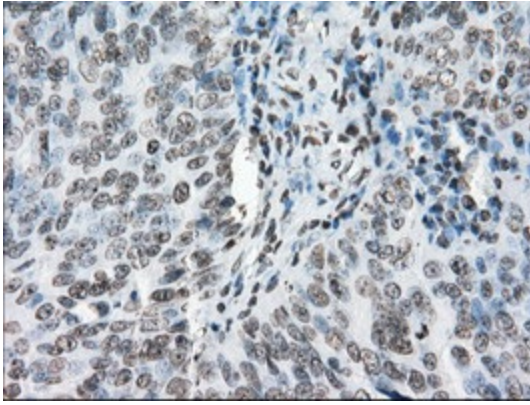
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



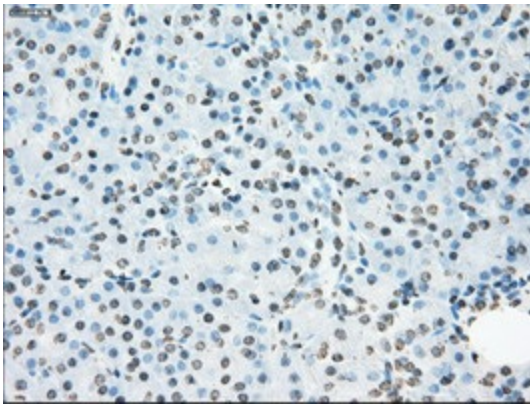
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



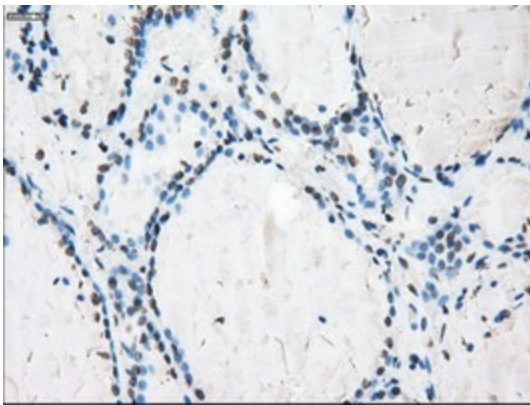
Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



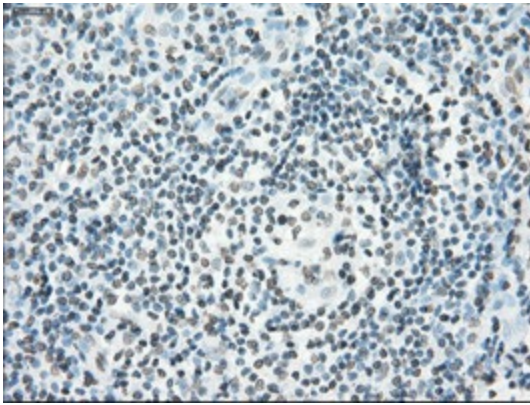
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



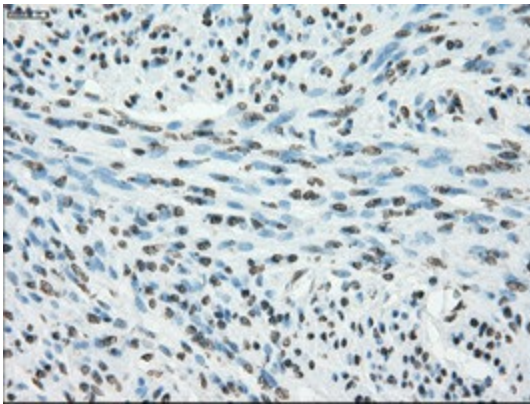
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



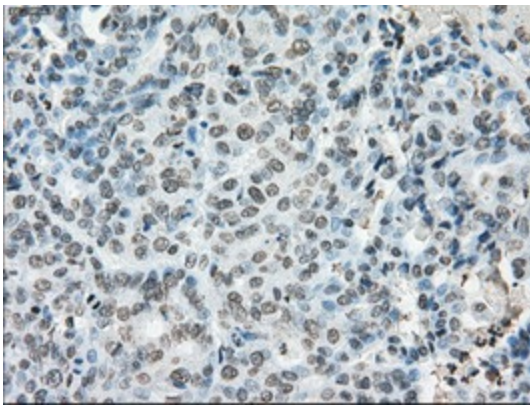
Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



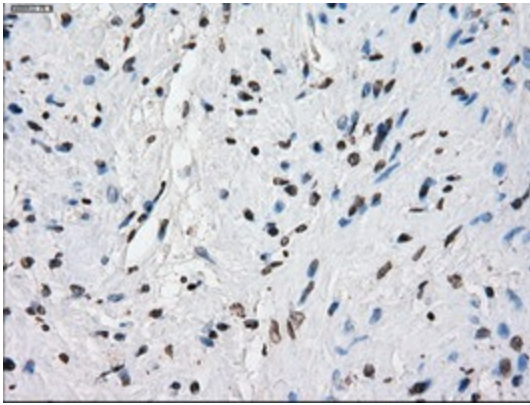
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



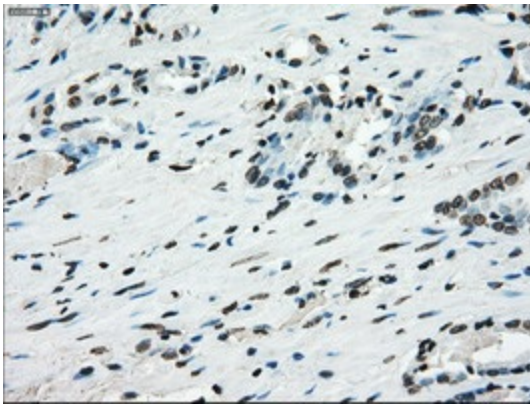
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



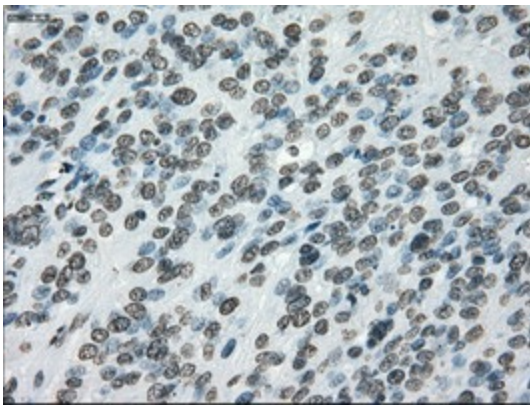
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



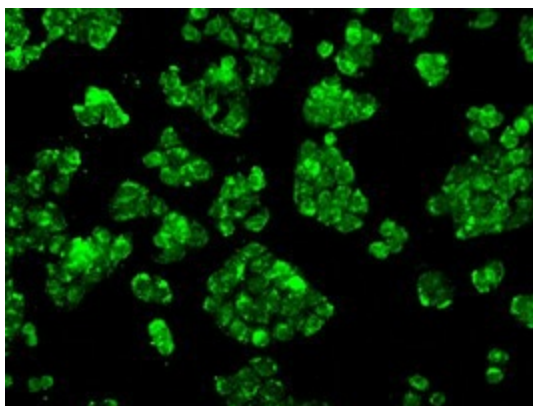
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



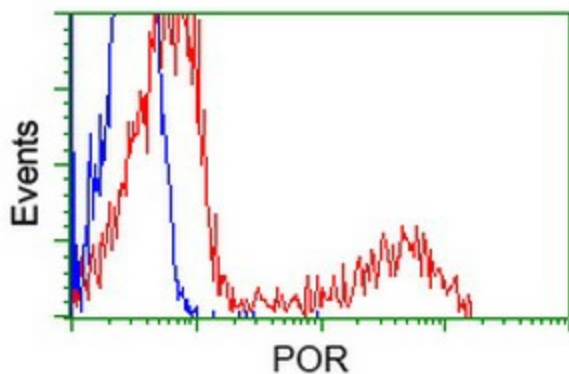
Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-POR mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500612])



Immunofluorescent staining of HT29 cells using anti-POR mouse monoclonal antibody ([TA500612]).



HEK293T cells transfected with either [RC202172] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-POR antibody ([TA500612]), and then analyzed by flow cytometry.