For Research Use Only

Prolactin Polyclonal antibody

Catalog Number:16525-1-AP 1 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
16525-1-AP

Size:
750 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9764

GenBank Accession Number:
BC015850

GeneID (NCBI):
5617

UNIPROT ID:
P01236

Full Name:
prolactin

Calculated MW:
227 aa, 26 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:400-1:1600
IF/ICC 1:200-1:800

Applications

Tested Applications:
IHC, IF/ICC, ELISA

Cited Applications:
IHC

Species Specificity:
human, mouse, rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human pituitary tissue, rat testis tissue, mouse testis tissue

IF/ICC : COS-7 cells,

Background Information

Prolactin is also named as PRL and belongs to the somatotropin/prolactin family. The proteins encoded by PRL are secreted into the cell surroundings. And they are abundantly expressed in pituitary gland, adenohypophysis, decidua and testis. Indeed, chemically, prolactin appears in a multiplicity of posttranslational forms ranging from size variants to chemical modifications such as phosphorylation or glycosylation. It is not only synthesized in the pituitary gland, as originally described, but also within the central nervous system, the immune system, the uterus and its associated tissues of conception, and even the mammary gland itself (PMID: 11015620). Prolactin acts primarily on the mammary gland by promoting lactation (PMID: 30546056). The major form of prolactin found in the pituitary gland is 23 kDa, variants of prolactin have been characterized in many mammals, including humans. Of the cleaved forms that have been characterized, 14 kDa, 16 kDa, and 22 kDa prolactin variants have been most widely studied (PMID: 7937959) (PMID: 8425495).

Notable Publications

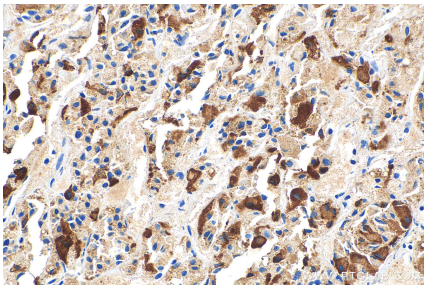
Author	Pubmed ID	Journal	Application
Xiaohong Ai	35117410	Transl Cancer Res	IHC

Storage

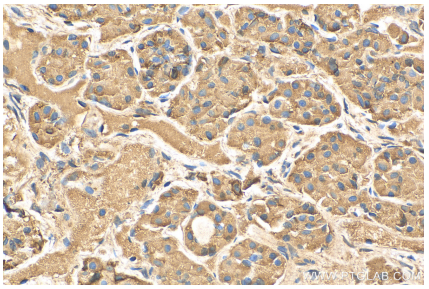
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data

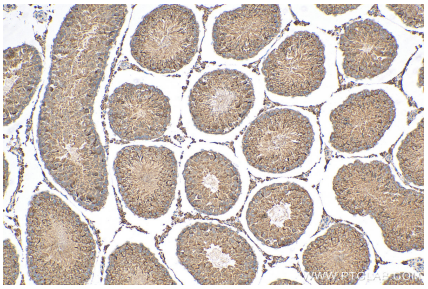


Immunohistochemical analysis of paraffin-embedded human pituitary tissue slide using 16525-1-AP (Prolactin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

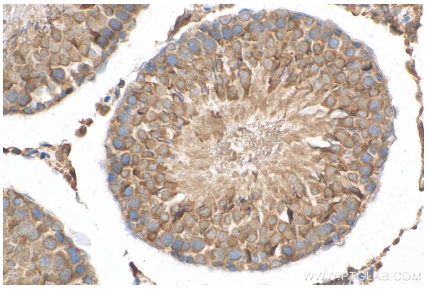


Immunohistochemical analysis of paraffin-embedded human pituitary tissue slide using 16525-1-AP (Prolactin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

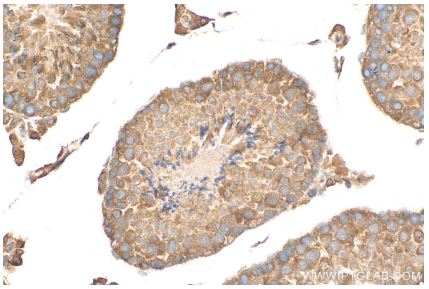
Immunofluorescent analysis of (-20°C Ethanol) fixed COS-7 cells using Prolactin antibody (16525-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



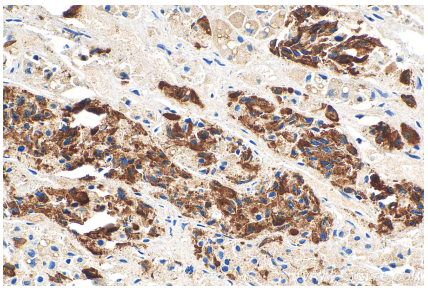
Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 16525-1-AP (Prolactin antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 16525-1-AP (Prolactin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 16525-1-AP (Prolactin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pituitary tissue slide using 16525-1-AP (Prolactin antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).