9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

36-3042: Anti-Prolactin (Pituitary Tumor Marker) Monoclonal Antibody(Clone: PRL/2644)

Clonality :	Monoclonal
Clone Name :	PRL/2644
Application :	IHC
Reactivity :	Human
Gene :	PRL
Gene ID :	5617
Uniprot ID :	P01236
Alternative Name :	Decidual prolactin; GHA1; Growth hormone A1; Lactogenic hormone; Luteotropic hormone; Mammotropin; PRL; Prolactin; Prolactin precursor
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment of human Prolactin (PRL) protein (around aa 63-201) (exact sequence is proprietary)

Description

Prolactin is a growth factor that is secreted by the anterior pituitary. It is necessary for the proliferation and differentiation of the mammary glands. Prolactin is useful in the classification of pituitary tumors and study of pituitary disease. It also plays a role in the development of mammary cancer, functioning dually as a mitogen and a differentiating agent.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

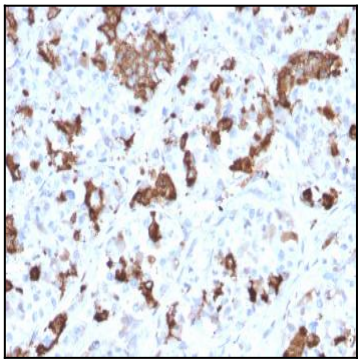

Fig. 1: Formalin-fixed, paraffin-embedded human Pituitary stained with Prolactin Mouse Monoclonal Antibody (PRL/2644).

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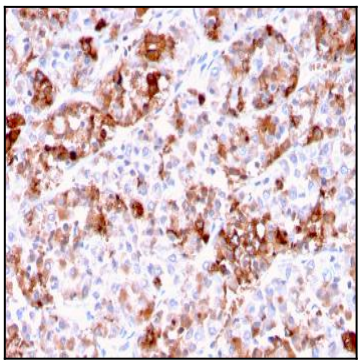

Fig. 2: Formalin-fixed, paraffin-embedded human Pituitary stained with Prolactin Mouse Monoclonal Antibody (PRL/2644).

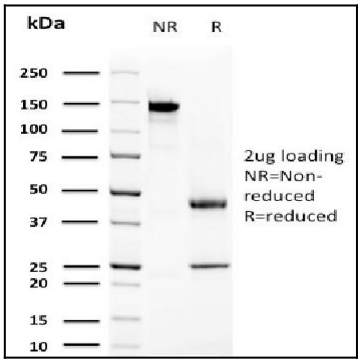

Fig. 3: SDS-PAGE Analysis Purified Prolactin Mouse Monoclonal Antibody (PRL/2644). Confirmation of Purity and Integrity of Antibody

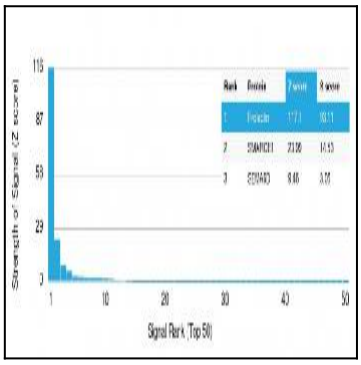

Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using Prolactin Mouse Monoclonal Antibody (PRL/2644). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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