

YASHRAJ
BIOTECHNOLOGY LTD.
a bio-quest for ever



Yashraj Biotechnology Newsletter

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- TPO
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YBL- HbsAg antigens referred in prestigious Journal

our HbsAg antigens have been utilized in one of the research studies. An article published by Sheikh M. Talha et al, in Journal of Immunological Methods, titled "Array-in-well platform-based multiplex assay for the simultaneous detection of anti-HIV- and treponemal-antibodies, and Hepatitis B surface antigen"

This study demonstrates the methodology for detection of multiple analytes in a multiplex assay. YBL Congratulates all authors for this elegant publication and thanks them for the acknowledgement.

<http://www.sciencedirect.com/science/article/pii/S0022175915300739>

Dear Readers,

Welcome to this issue of Yashraj Biotechnology's Newsletter. It is indeed a moment of great pleasure to release the third issue of our Newsletter in 2016.

In the previous quarter of the year, we successfully finished the characterization of recombinant TPO. We have also undertaken purification of native transferrin and IgG as a new project at our R& D.

This month, we attended the world's one of the biggest trade fare show for IVD and Medical devices at AACC, Philadelphia. We had one to one interaction with potential customers, distributors and research scholars and showcased our products to them.

We would like to take the opportunity to wish you happy summer holidays.

Thank you all for your support.

(Arvind K. Bhanushali, Bharat T. Dagha, Paresh B. Bhanushali)
Promoter Directors

NEW ANTIGEN !

TPO for your immunological assays.

Our R & D team has successfully, purified TPO. This antigens are now available for your immunological assays. TPO is a biomarker for thyroid disorder.


For additional information, certificate of analysis and trial samples please feel free to contact us.

Glimpse of our product portfolio



YASHRAJ[®] BIOTECHNOLOGY LTD. *a bio-quest for ever*

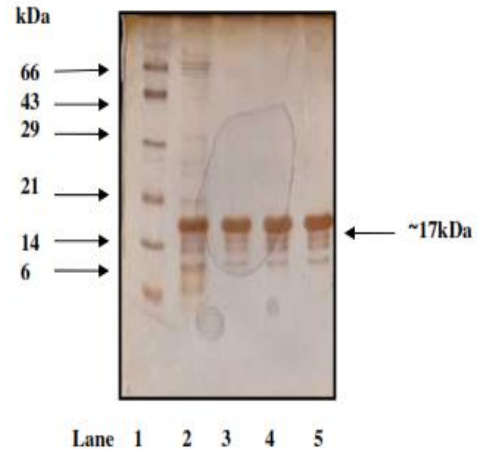
TRUSTED PARTNER FOR SOURCING OF NATIVE ANTIGENS, RECOMBINANT ANTIGENS AND ANTIBODIES

Native	Recombinant	Antibodies
<ul style="list-style-type: none"> • Cardiac <ul style="list-style-type: none"> • CRP • D-Dimer • Infection <ul style="list-style-type: none"> • HBsAg-Ay • HBsAg-Ad • Cancer <ul style="list-style-type: none"> • CA 15-3 • CA 19-9 • CA 72-4 • CA 125 • CEA • AFP • PSA • PSA-ACT • Kappa free light chain • Lambda free light chain • HE-4 • Renal <ul style="list-style-type: none"> • A1M • B2M • Cys C • NGAL • Autoimmune <ul style="list-style-type: none"> • MPO • PR3 • Others <ul style="list-style-type: none"> • sTfr • PAPP-A • Ferritin 	<ul style="list-style-type: none"> • Cardiac <ul style="list-style-type: none"> • Troponin I • Troponin T • ProBNP • NT-ProBNP • FABP-3 • Galectin 3 • Infection <ul style="list-style-type: none"> • SLO • Defensin beta 2 • Renal <ul style="list-style-type: none"> • NGAL • Inflammation <ul style="list-style-type: none"> • SAA • TNF α • Thyroid <ul style="list-style-type: none"> • TPO • Tumor <ul style="list-style-type: none"> • NSE • Others <ul style="list-style-type: none"> • Alpha-Synuclein • CKMM • Prolactin • SHBG • S100A8 • S100A9 	<ul style="list-style-type: none"> • Cardiac <ul style="list-style-type: none"> • CRP • Cancer <ul style="list-style-type: none"> • CA 15-3 • CA 19-9 • CA 125 • PSA • AFP • Diabetes <ul style="list-style-type: none"> • HbA1c <div style="text-align: right; margin-top: 20px;">  </div>

Pro-BNP

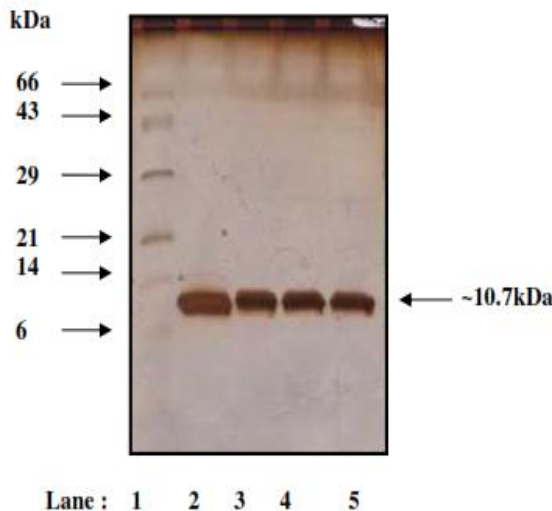
Brain natriuretic peptide (BNP) is a 32-amino acid vasopeptide secreted by cardiac ventricles. It plays major role in controlling blood pressure by regulating the kidney and systemic vasculature. Proteolytic processing of results into NT-proBNP and BNP. NT-proBNP is 76 amino acid long N BNP (108 a.a). It is a physiologically inactive part of pro-BNP. NT-proBNP and ProBNP are used for screening and prognosis of heart failure patients.

14% Reduced SDS PAGE: rPro-BNP



Lane1:MWL
Lane2: External Control
Lane3:DBNPH 0001/14
Lane4:DBNPH 0002/14
Lane5:DBNPH 0003/14

15% Reduced SDS PAGE: rNT-Pro-BNP



Lane1:MWL
Lane2:Control
Lane3:DrPBNP0001/14
Lane4:DrPBNP0002/14
Lane5:DrPBNP0003/14

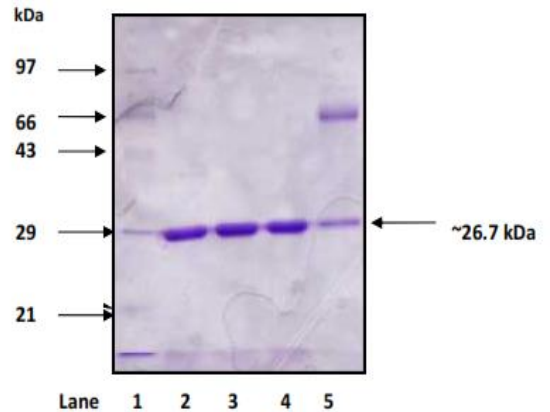
NT Pro-BNP

The N-terminal prohormone of brain natriuretic peptide (NT-proBNP) is a 76 amino acid N-terminal protein that is cleaved to release brain natriuretic peptide. Both BNP and NT-proBNP levels in the blood are used for screening, diagnosis of acute congestive heart failure (CHF) and may be useful to establish prognosis in heart failure, as both markers are typically higher in patients with worse outcome.

GALECTIN-3

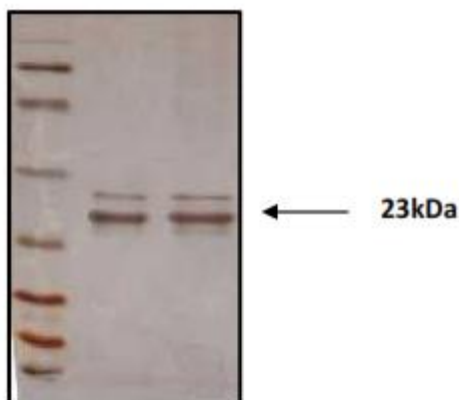
Galectin-3 is a member of lectin family. Galectin-3 binds to a wide range of extracellular matrix proteins such as fibronectin, and laminin domains. Expression of Galectin-3 is seen in neutrophils, macrophages, mast cells, fibroblasts, and osteoclasts Plasma. Galectin-3 is a novel prognostic marker in patients with chronic heart failure.

12 % Reduced SDS PAGE : rGalactine 3 wild



Lane1 : MWL
Lane 2 : DGTNW0001/14
Lane 3: DGTNW0002/14
Lane 4: DGTNW0003/14
Lane 5: r Galectin 3 wild External Control

12% Reduced SDS Page : rNGAL (mt)



Lane : 1 2 3
Lane1 : MWL
Lane2: FrmGAL 0001
Lane2: FrmGAL 0002

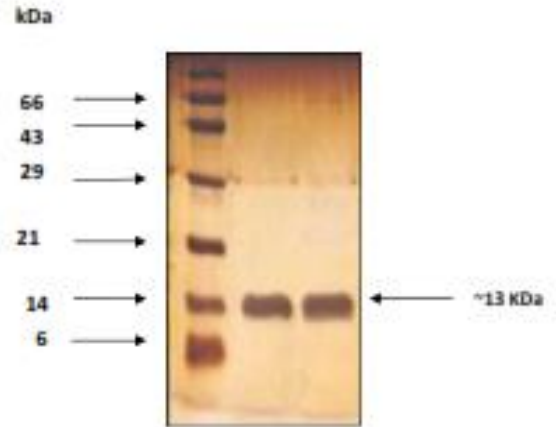
NGAL

NGAL is also known as Lipocalin-2 (neutrophil gelatinase associated lipocalin). It is an early and reliable indicator of acute kidney injury (AKI). In the recent past NGAL has emerged as an excellent prognostic marker for the AKI. During kidney injury level of NGAL goes high in both plasma as well as urine. Since NGAL is resistant to protease, it is quite stable in the blood and serum.

CYSTATIN-C

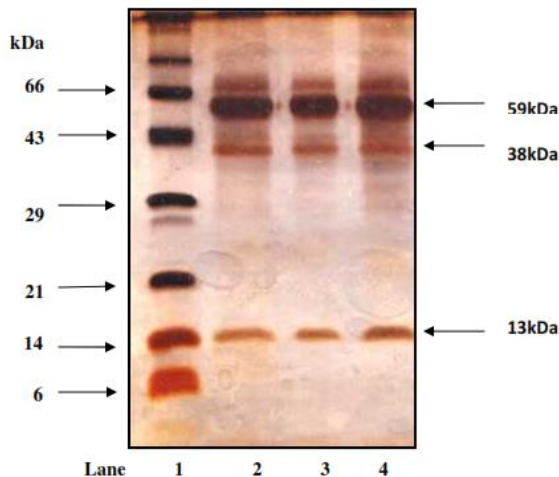
Cystatin C is a low molecular weight (13.4 KDa) protein. It functions as an inhibitor of various cysteine proteases. Serum cystatin C is considered to be a superior than serum creatinine as a marker of kidney function

14% Reduced SDS-PAGE: Cystatin C High Pure



Lane 1 : MWL
Lane 2 : FCysChp0001
Lane 3 : Cys C Control

15% Reduced SDS-PAGE: MPO



Lane 1 : MWL
Lane 2 : VMPO0001/14
Lane 3 : VMPO0002/14
Lane 4 : VMPO0003/14

MPO

Myeloperoxidase is a heme conjugate peroxidase enzyme. In humans, it is secreted by neutrophils during the myeloid differentiation. MPO is considered as a prognostic marker for the chronic vascular inflammatory disease.

YBL-Top Cardiac/CVD Markers



YBL-Cardiac/CVD Markers	Route of Production
Galectin – 3	Recombinant
Troponin I	Recombinant
NT- Pro BNP	Recombinant
Pro- BNP	Recombinant
FABP-3	Recombinant
Apo-SAA	Recombinant
CRP	Native
Myeloperoxidase (MPO)	Native
D-Dimer	Native

YBL- Cancer Biomarkers

CA 15-3	Native
CA 72-4	Native
CA 19-9	Native
CA 125	Native
AFP	Native
CEA	Native
PSA	Native
PSA-ACT	Native

Bulk Orders & Product Development at YBL

YBL is your trusted partner for supply of high quality Antigens and Antibodies of batch-to-batch consistency with shortest possible lead time, we can also offer the facility of customizing the products as per your specifications, such as buffer, COAs, packaging and logistics.

Besides the products which we regularly make, we can also do R&D and make new products for you with short turn-around time.

Send us an e-mail with an Inquiry or suggestions at bharat@yashrajbio.com

For products information please visit us at <http://www.yashraj.com/>