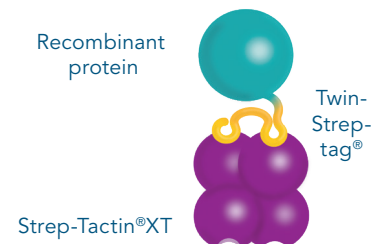


# FROM PURIFICATION TO ANALYTICAL APPLICATIONS

IBA's proprietary Strep-tag®/Strep-Tactin®XT system is based on the specific but reversible interaction between two affinity tags (Strep-tag®II and Twin-Strep-tag®) and engineered streptavidin variants like Strep-Tactin®XT.



CLONING & EXPRESSION

PURIFICATION

ANALYSIS

The Strep-tag® system is compatible with

 *E. coli*

 Mammalia

 Yeast

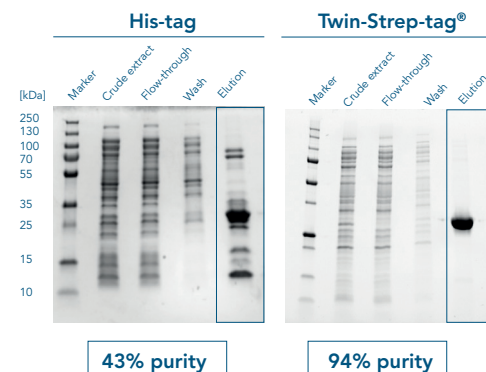
 Insect

and many more expression hosts.

## Purification

- › Protein purity > 94%
- › High protein yields
- › Physiological conditions
- › Mild elution with biotin
- › Adaptable buffer composition
- › High-throughput & automated purification

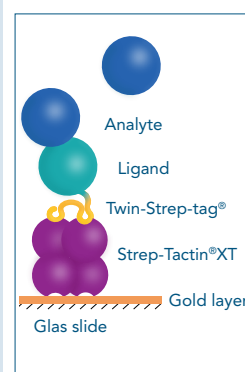
## Purification of GFP from bacterial lysates



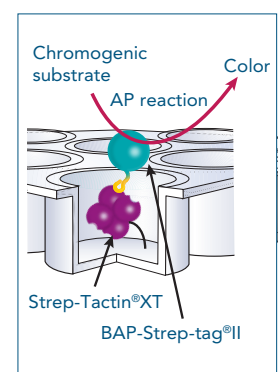
## Analysis

- › SPR & BLI
- › Protein-protein interactions
- › Enzyme activity assays
- › Cell staining & sorting
- › Protein localization & detection
- › Screening of multiple samples

## Protein kinetics



## Assays



## CLONING AND EXPRESSION

Cloning & Expression



### Products

MEXi mammalian expression system: More than 100 vectors, HEK293 cell line, culture and transfection media

Expression hosts: *E. coli*, Mammalian cells, Yeast or Baculovirus (for insect cells)

Optimized for high-throughput mammalian expression and efficient Strep-tag® purification

## PROTEIN PURIFICATION

Purification



### MagStrep® Strep-Tactin®XT beads

Perfectly suitable for **batch purification and pull-down**, conserves even weak protein interactions

**High specificity**, low unspecific background

**Easily scalable**, suitable for small scale **high-throughput screenings** to large scale protein production

### Strep-Tactin®XT 4Flow® high capacity

Efficient purification of **low-abundant and challenging proteins**

Exceptionally **high yield, affinity and stability**

Compatibility with wide range of buffer conditions; regeneration with NaOH

## VARIOUS PRODUCT FORMATS:

The highly specific interaction of the Strep-tag® with Strep-Tactin®XT ensures efficient purification of the protein of interest in unparalleled purity even from crude cell lysates. For every approach the optimal format and sizes can be chosen.



FPLC-/HPLC- Column



Gravity Flow Column



50% Suspension



Magnetic Beads

Product number	Product name	Content
2-5998-000	Strep-Tactin®XT 4Flow® starter kit	1 kit
2-5030-002	Strep-Tactin®XT 4Flow® high capacity suspension	4 ml
2-5030-010	Strep-Tactin®XT 4Flow® high capacity suspension	20 ml
2-5030-025	Strep-Tactin®XT 4Flow® high capacity suspension	50 ml
2-5031-005	Strep-Tactin®XT 4Flow® high capacity gravity flow column	5x 0.2 ml
2-5032-001	Strep-Tactin®XT 4Flow® high capacity gravity flow column	1 ml
2-5027-001	Strep-Tactin®XT 4Flow® high capacity FPLC column	1 ml
2-5028-001	Strep-Tactin®XT 4Flow® high capacity FPLC column	5 ml
2-5090-002	MagStrep® Strep-Tactin®XT beads	2 ml
2-5090-010	MagStrep® Strep-Tactin®XT beads	10 ml
2-1003-100	Buffer W (10x), washing buffer	100 ml
2-1042-025	Buffer BXT (10x), elution buffer	25 ml
2-1045-250	Buffer XT-R, regeneration buffer	250 ml
2-1043-000	Strep-Tactin®XT purification buffer set	1 set
2-1016-002	Biotin	2 g

Other resins with different specifications available.



## PROTEIN STAINING AND DETECTION

For detection of Strep-tagged fusion proteins on western blots, ELISA, FACS, ICC or IHC we offer highly specific monoclonal antibodies and Strep-Tactin®XT conjugates.



Product number	Product name	Content
2-1507-001	StrepMAB-Classic, purified, lyophilized	100 µg
2-1509-001	StrepMAB-Classic HRP	75 µl
2-1517-001	StrepMAB-Immo, purified, lyophilized	100 µg
2-1502-001	Strep-Tactin® HRP	0.5 ml
2-1503-001	Strep-Tactin® AP	0.5 ml
6-5400-001	Strep-Tactin®XT PE	0.5 ml
2-1568-050	Strep-Tactin®XT DY-649	100 µl

## PROTEIN ANALYSIS

Due to the outstanding high affinity of the Twin-Strep-tag® to Strep-Tactin®XT (pM range), Strep-Tactin®XT is very well suited for biomolecular interaction analysis techniques such as Surface Plasmon Resonance (SPR) or Biolayer Interferometry (BLI).



BLI Coupling Kit



Twin-Strep-tag® Capture Kit for SPR

Product number	Product name
2-4370-000	Twin-Strep-tag® capture kit (for SPR)
2-4370-010	Twin-Strep-tag® capture kit, maxi (for SPR)
2-4380-000	Strep-Tactin® XT BLI coupling kit for coating of biosensors

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