GENOVIS

Innovative Tools for Life Sciences

GENOVIS

Business Areas

GENOVIS

SmartEnzymes™

Antibodies

Bioprocess

Gene Therapy

Services

Antibody Digestion

FabRICATOR® (IdeS)
Below hinge digestion of IgG

FabALACTICA® (IgdE)
Above hinge digestion of human IgG1

FabDELLO™
Above hinge digestion of human IgG1

FabRICATOR® Z (IdeZ)
Below hinge digestion of mouse IgG

GingisKHAN® (Kgp)
Above hinge digestion of human IgG1

FabULOUS™ (SpeB)
Above hinge digestion of IgG

IgMBRAZOR™
Digestion of IgM

Fusion Protein Digestion

GlySERIAS™
Hydrolysis of Flexible Linkers

Antibody Conjugation

GlyCLICK®
Site-specific conjugation of IgG

TransGLYCIT™
Transglycosylation of IgG

Proteomics

GingisREX® (RgpB)
Arginine-specific protein digestion

Glycan Profiling

OmniGLYZOR™
Hydrolysis of N- and mucin-type O-glycans

PNGase F
Hydrolysis of N-glycans

OpeRATOR®
O-glycan specific protein digestion

OglyZOR®
Hydrolysis of core-1 O-glycans

SialEXO®
Hydrolysis of sialic acids

FucosEXO™
Hydrolysis of α1-2,3,4 fucose

GalactEXO™
Hydrolysis of β1-3,4 galactose

GalNAcEXO™
Hydrolysis of α-linked GalNAcs

GlycOCATCH®
Enrichment of O-glycopeptides

Antibody Deglycosylation

GlycINATOR® (EndoS2)
Hydrolysis of all Fc N-glycans

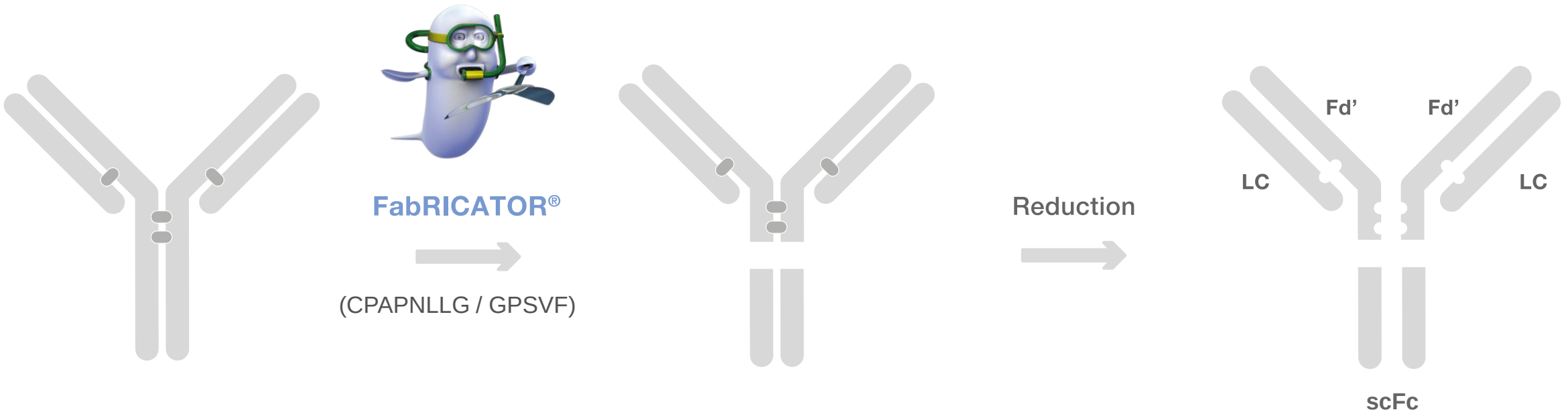
IgGZERO® (EndoS)
Hydrolysis of Fc N-glycans

Research Antibodies

Anti-FabRICATOR®
Detection of the FabRICATOR® enzyme

Anti-FabRICATOR® Z
Detection of the FabRICATOR® Z enzyme

FabRICATOR®



- Cysteine protease for the digestion of **several species and subclasses of IgG**
- Digestion of **human IgG1-4** and some classes of monkey, rat, sheep and rabbit
- Digestion at a **specific site below the hinge**
- Generation of **F(ab’)2** and **Fc fragments** with **no risk of over-digestion**
- **No** reducing agents or cofactors required for optimal activity

30 MINUTES

Available Product Formats

FabRICATOR Lyophilized
Lyophilized enzyme for below hinge digestion of IgG

FabRICATOR Immobilized
Immobilized enzyme for below hinge digestion of IgG in spin columns

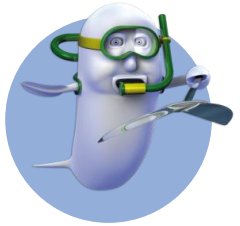
FabRICATOR Fab2 Kit
Immobilized enzyme and affinity resin for digestion of IgG and purification of fragments

FabRICATOR HPLC
Immobilized enzyme for on-column digestion of IgG below the hinge

FabRICATOR MagIC
Immobilized enzyme on magnetic beads for automated digestion of IgG below the hinge

FabRICATOR Low Endotoxin
Lyophilized enzyme with low levels of endotoxin for below hinge digestion of IgG

FabRICATOR Validation Kit
Three different **lyophilized** batches for validation of FabRICATOR-based analytical methods



OmniGLYZOR™

- **Native deglycosylation** of antibodies, fusion proteins and other heavily glycosylated proteins
- **Fast** and **efficient** removal of N- and simple mucin-type O-glycans
- Deglycosylation in as little as one hour (optimization may be required for more heavily glycosylated proteins)
- Mixture of **immobilized PNGase F, O-glycosidase, sialidase and α-GalNAcase**
- Option for an additional deglycosylation step under denaturing conditions

SialEXO®

- **Sialidase mixture** for the removal of **α2-3**, **α2-6** and **α2-8**-linked sialic acids
- **Fast** and **efficient** activity on both **N-** and **O-linked glycans** present on **native glycoproteins** and **released glycan** structures
- **Immobilized** format **reduces reaction time** without residual enzyme in the final sample
- **SialEXO 2-3** is **highly specific** for **α2-3**-linked sialic acids
- Included with OglyZOR and OpeRATOR products

1-2 HOURS

SmartEnzymes™

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