

FabRICATOR[®] for Antibody Fragmentation

Fab and F(ab')₂ antibody fragments are used in many applications where the presence of the Fc region may cause problems with background staining (cells with Fc receptors) or complement binding (plasma). The divalency of F(ab')₂ fragments also enables antigen cross-linking making it useful for rosetting, cellular aggregation, and precipitation assays.

FabRICATOR[®] IgG Protease

Utilizing the unique specificity of a novel proteolytic enzyme, Genovis has developed a product to rapidly generate precise F(ab')₂ fragments. FabRICATOR cleaves IgG at a single defined site below the hinge region to yield F(ab')₂ fragments in minutes.

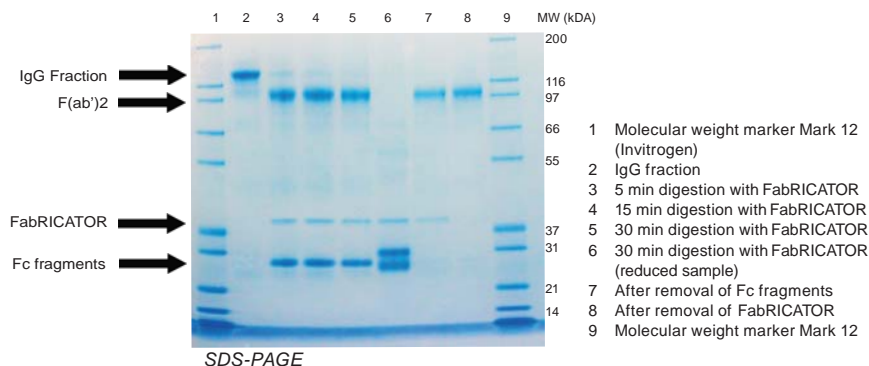
Why FabRICATOR[®] IgG Protease?

- Rapid F(ab')₂ fragments – Complete cleavage of F(ab')₂ fragments in minutes
- Exquisite Specificity – Precise IgG cleavage ensures full length fragments without subsequent degradation
- Unrivaled Yields – Precision and efficiency result in unmatched yield
- High Purity – Simple removal of protease utilizing His-tag technology

IgG species cleaved by FabRICATOR[®] IgG Protease

| | | | |
|------------|-----|-------------|----|
| Human IgG | Yes | Mouse IgG | No |
| Sheep IgG | Yes | Goat IgG | No |
| Rabbit IgG | Yes | Bovine IgG | No |
| Monkey IgG | Yes | Porcine IgG | No |
| | | Rat IgG | No |

Demonstration of specificity and purity

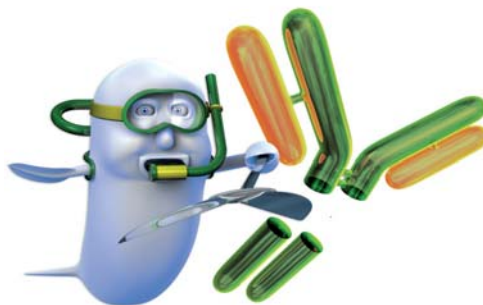


FabRICATOR® F(ab')₂ Purification Kit, purified F(ab')₂ in less than 1h.

FabRICATOR Kit provides not only rapid and precise antibody fragments, but also simple and rapid purification of F(ab')₂ fragments in a single step utilizing magnetic particles.

FabRICATOR® F(ab')₂ Purification Kit compared to other methods

| | Enzymatic digestion | FabRICATOR Kit |
|---------------|--|--|
| Reaction Time | 4 – 48h | 30 min – 1h |
| No of steps | > 10 | 3 |
| Purity | Continous digestion which results in multiple separation steps | One single cleavage site which results in a single separation step |
| Capacity | Requires large quantities of antibody | Possible to cleave small quantities of antibody |
| Recovery | <25% F(ab') ₂ in 4 - 24 hrs | >50% F(ab') ₂ in under 1 hr |



Ordering Information

FabRICATOR® IgG Protease

| Part# | Size | Description | Price |
|------------|---------|-------------------|---------|
| A0-FR1-010 | 500U | Cleaves 0.5mg IgG | \$75 |
| A0-FR1-020 | 2,000U | Cleaves 2mg IgG | \$315 |
| A0-FR1-050 | 5,000U | Cleaves 5mg IgG | \$650 |
| A0-FR1-250 | 25,000U | Cleaves 25mg IgG | \$2,950 |

FabRICATOR® F(ab')₂ Purification Kit

| Part# | Size | Description | Price |
|------------|--------|--------------------------------|---------|
| A0-FR2-005 | 50U | Test Kit Processing 50µg IgG | \$95 |
| A0-FR2-020 | 2,000U | Processing 2mg IgG | \$750 |
| A0-FR3-020 | 2,000U | Refill Kit, Processing 2mg IgG | \$695 |
| A0-FR2-050 | 5,000U | Processing 5mg IgG | \$1,750 |
| A0-FR3-050 | 5,000U | Refill Kit, Processing 5mg IgG | \$1,650 |