



FCGR StripAssay[®]

Supports personalized medicine to minimize risks in immunotherapy

- Fc gamma receptor (FCGR) genotyping helps to identify high and low responders in antibody-based immunotherapy.
- In colorectal cancer 56% of patients with FCGR3A 158 F/F genotype responded to treatment with cetuximab plus bevacizumab, compared to 25% with heterozygous F/V and 8% homozygous V/V genotype.
- Breast cancer patients with the genotypes FCGR2A 131 H/H and FCGR3A 158 V/V responded favourably to trastuzumab therapy.



Improve antibody-based cancer therapy by FCGR genotyping.

ViennaLab FCGR StripAssay[®] detects the variants FCGR2A H131R and FCGR3A F158V.

- Simple protocol for complex diagnostic questions
- Manual or automated
- No expensive lab equipment required
- Ready-to-use reagents
- CE-labelled complete kit - DNA extraction included



FCGR2A, FCGR3A

Immunoglobulin G (IgG) binding receptors play an important role in the immune system. Germline polymorphisms in the Fc gamma receptor (FCGR) 2A and 3A genes alter the affinity of the respective FCGR to bind IgG subclasses. Due to these polymorphisms FCGR2A carries either histidine (H) or arginine

(R) at amino acid position 131 and FCGR3A either phenylalanine (F) or valine (V) at amino acid position 158. FCGR polymorphisms were reported to play a role in autoimmune and chronic inflammatory disorders. Several studies showed an impact of FCGR polymorphisms on antibody-based cancer therapies.

The FCGR StripAssay[®] detects the allelic variants of FCGR2A (rs 1801274) and FCGR3A (rs396991).

Therapeutic mAb	Disease	Favourable genotype
Rituximab	Non-Hodgkin Lymphoma	FCGR3A-158 V/V
Rituximab	Waldenström's Macroglobulinemia	FCGR3A-158 V/V FCGR3A-158 F/V
Trastuzumab	HER-2/neu positive metastatic breast cancer	FCGR2A-131 H/H FCGR3A-158 V/V
Cetuximab	Colorectal Cancer	under investigation
Panitumumab	Colorectal Cancer	under investigation

The three steps of the ViennaLab FCGR StripAssay[®]

Step	Requirement
1. Amplification: Multiplex PCR-amplification. Simultaneous biotin-labeling	Thermocycler
2. Hybridization: Directly on the StripAssay [®] teststrips	Incubator
3. Identification: Labeled products detected by streptavidin-alkaline phosphatase	Naked eye or scanner & software

Cat.no.: FCGR StripAssay[®] 5-670 (20 tests/kit)

ViennaLab offers StripAssays[®] for a wide range of diagnostic applications. Visit www.viennalab.com

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