AdipoGen™
Connecting Immunology to Metabolism™

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# Recombinant Monoclonal Antibodies

## Antibodies developed from a NON-ANIMAL SOURCE using *in vitro* antibody phage display technology

### Features:

- Developed from a human antibody phage display library.
- Consists of scFv (single chain fragment variable) composed of VH (variable domain of the human immunoglobulin heavy chain) and VL (variable domain of the human immunoglobulin light chain) fused to a Fc region.
- Produced in mammalian cells (CHO or HEK 293).
- Similar properties compared to monoclonal antibodies developed in mice / rat (e.g. affinity in the low nanomolar range).
- Standard secondary antibodies can be used.
- Ideal for conserved antigens (which are poorly immunogenic in animals).
- Detect conformational epitopes (e.g. GTP-bound proteins).
- Detect protein modifications (e.g. phosphorylations, ubiquitinations).
- Possibility to exchange the Fc region with Fc from other species.

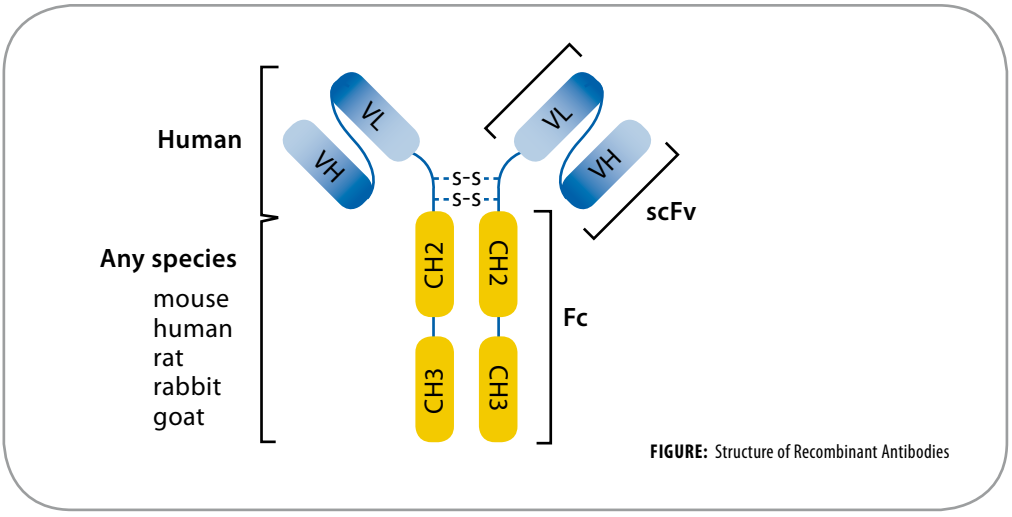


**FIGURE:** Structure of Recombinant Antibodies

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# New Recombinant Antibodies

## anti-APRIL (mouse), mAb (rec.) (blocking) (Apry-1-1)

| | | |
|---|---|---|
| AG-27B-0001-C100 | | 100 µg |
| AG-27B-0001PF-C100 | (Preservative Free) | 100 µg |

| | |
|---|---|
| **Clone:** | Apry-1-1 |
| **Isotype:** | Mouse IgG2bλ |
| **Immunogen:** | Mouse APRIL (aa 98-232) |
| **Specificity:** | Recognizes mouse APRIL |
| **Application:** | ELISA, IP, FUNC (Inhibits binding of mouse APRIL to mouse BCMA and TACI) |

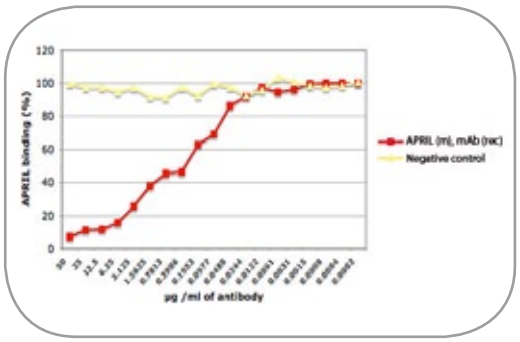


**FIGURE:** Binding of mouse APRIL to mouse BCMA is inhibited by anti-APRIL (mouse), mAb (rec.) (blocking) (Apry-1-1) (Prod. No. AG-27B-0001).

## anti-EGFP, mAb (rec.) (G3)

| | |
|---|---|
| AG-27B-0007-C100 | 100 µg |

| | |
|---|---|
| **Clone:** | G3 |
| **Isotype:** | Human IgG2bλ |
| **Immunogen:** | Enhanced green fluorescent proteins (EGFP) |
| **Specificity:** | Recognizes EGFP, enhanced cyan fluorescent protein (ECFP) and enhanced yellow fluorescent protein (EYFP) |
| **Application:** | ELISA, ICC, IP, WB |

**LIT:** S. Moutel, et al.; Biotech. J. **4,** 38 (2009)

## anti-Giantin, mAb (rec.) (TA10)

| | | |
|---|---|---|
| AG-27B-0003-C100 | | 100 µg |
| AG-27B-0003TD-C100 | (ATTO 488) | 100 µg |

| | |
|---|---|
| **Clone:** | TA10 |
| **Isotype:** | Human IgG2bλ |
| **Immunogen:** | Human recombinant giantin |
| **Specificity:** | Recognizes human and mouse giantin |
| **Application:** | ICC |

**LIT:** C. Nizak, et al.; Traffic **7,** 739 (2003) • O. Vielemeyer, et al; BMC Biotechnol. **10,** 59 (2010)

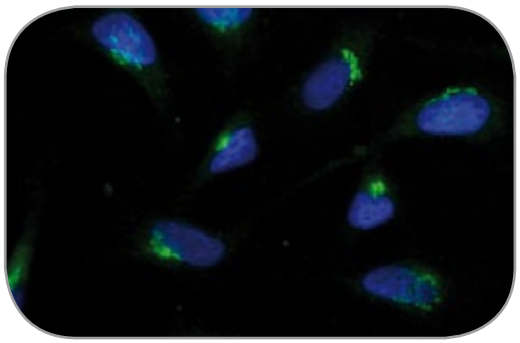

**FIGURE:** Human giantin is detected by immunocytochemistry using anti-giantin, mAb (rec.) (TA10) (ATTO 488) (Prod. No AG-27B-0003TD). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

## anti-HMGB1, mAb (rec.) (Giby-1-4)

| | |
|---|---|
| AG-27B-0002-C100 | 100 µg |

| | |
|---|---|
| **Clone:** | Giby-1-4 |
| **Isotype:** | Human IgG2bλ |
| **Immunogen:** | Human recombinant HMGB1 |
| **Specificity:** | Recognizes human, mouse and rat HMGB1 |
| **Application:** | ELISA, WB |

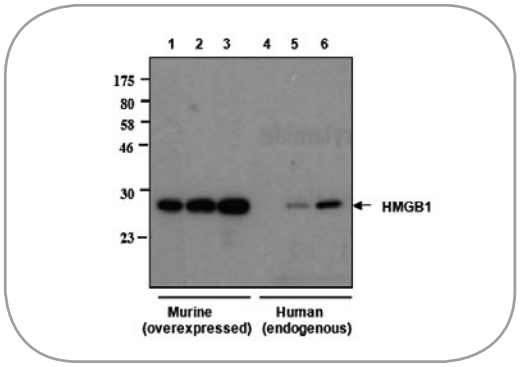


**FIGURE:** Western blot analysis of human and rat HMGB1 using anti-HMGB1, mAb (rec.) (Giby-1-4) (Prod. No. AG-27B-0002). Different amounts of cell extracts from HEK293T cells (3µg, 5µg and 30µg) either transfected with a plasmid coding for rat HMGB1 (lanes 1, 2, 3) or non-transfected (lanes 4, 5, 6), were separated by SDS-PAGE under reducing conditions, transferred to nitrocellulose and incubated with anti-HMGB1, mAb (rec.) (Giby-1-4) (1µg/ml). Proteins were visualized by a chemiluminescence detection system.

## anti-Myosin IIA (non-muscle) (heavy chain), mAb (rec.) (SF9)

AG-27B-0010-C100 — 100 µg

| | |
|---|---|
| **Clone:** | SF9 |
| **Isotype:** | Human IgG2bλ |
| **Immunogen:** | Full length myosin IIA from rat liver |
| **Specificity:** | Recognizes human, mouse, rat and drosophila myosin IIA (heavy chain) |
| **Application:** | ELISA, ICC, WB, EM |

**LIT:** C. Nizak, et al.; Traffic **7,** 739 (2003)

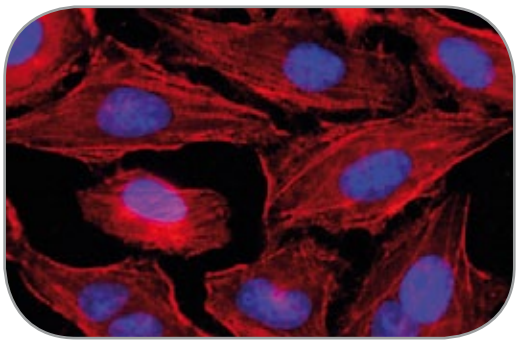

**FIGURE:** Human myosin IIA (non-muscle) (heavy chain) is detected by immunocytochemistry using anti-myosin IIA (non-muscle) (heavy chain), mAb (rec.) (SF9) (Prod. No. AG-27B-0010). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

## anti-Rab1-GTP, mAb (rec.) (ROF7)

AG-27B-0006-C100 — 100 µg

| | |
|---|---|
| **Clone:** | ROF7 |
| **Isotype:** | Human IgG2bλ |
| **Immunogen:** | Full length canine Rab1 |
| **Specificity:** | Recognizes human, mouse, rat and canine Rab1a-GTP and Rab1b-GTP |
| **Application:** | ICC, IP |

**LIT:** O. Vielemeyer, et al; BMC Biotechnol. **10,** 59 (2010)

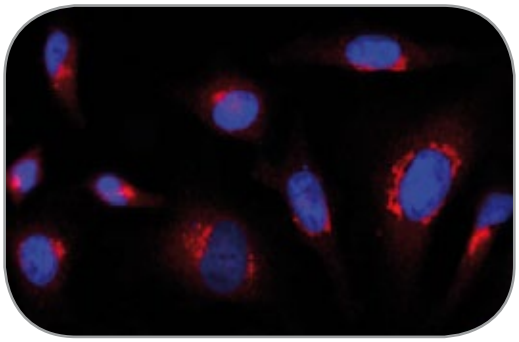

**FIGURE:** Rab1-GTP is detected by immunocytochemistry using anti-Rab1-GTP, mAb (ROF7) (Prod. No. AG-27B-0006). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

## anti-Rab6-GTP, mAb (rec.) (AA2)

AG-27B-0004-C100 — 100 µg
AG-27B-0004TD-C100 (ATTO 488) — 100 µg

| | |
|---|---|
| **Clone:** | AA2 |
| **Isotype:** | Human IgG2bλ |
| **Immunogen:** | Recombinant Rab6AQ72L, a GTP-locked mutant of Rab6A in which Gln72 is replaced by Leu |
| **Specificity:** | Recognizes human, mouse and drosophila GTP-bound Rab6a and Rab6b and mutant Rab6Q72L Does not detect Rab6-GDP |
| **Application:** | ICC, WB (only AG-27B-0004) |

**LIT:** C. Nizak, et al.; Science **300,** 984 (2003) • E. Del Nery, et al.; Traffic **7,** 394 (2006) • O. Vielemeyer, et al; BMC Biotechnol. **10,** 59 (2010)

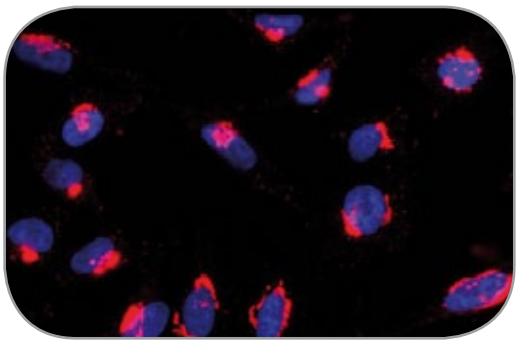

**FIGURE:** Rab6-GTP is detected by immunocytochemistry using anti-Rab6-GTP, mAb (AA2) (Prod. No. AG-27B-0004). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

## anti-α-Tubulin, mAb (rec.) (F2C)

| | | |
|---|---|---|
| AG-27B-0005-C100 | | 100 µg |
| AG-27B-0005TD-C100 | (ATTO 488) | 100 µg |

| | |
|---|---|
| **Clone:** | F2C |
| **Isotype:** | Human IgG2bλ |
| **Immunogen:** | Bovine brain tubulin |
| **Specificity:** | Recognizes human, mouse and bovine α-tubulin |
| **Application:** | ICC, WB (only AG-27B-0005) |

**LIT:** C. Nizak, et al.; Traffic **7,** 739 (2003) • O. Vielemeyer, et al; BMC Biotechnol. **10,** 59 (2010)

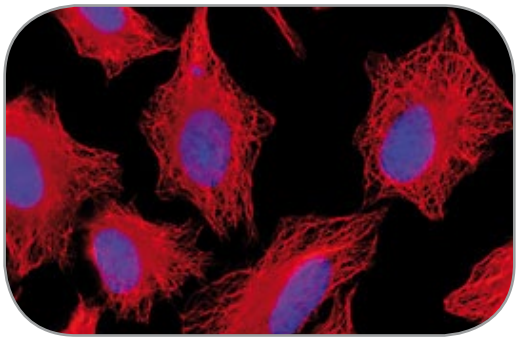

**FIGURE:** Human α-tubulin is detected by immunocytochemistry using anti-α-tubulin, mAb (rec.) (F2C) (Prod. No. AG-27B-0005). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

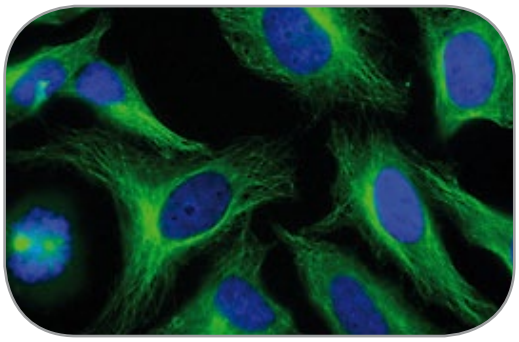

**FIGURE:** Human α-tubulin is detected by immunocytochemistry using anti-α-tubulin, mAb (rec.) (F2C) (ATTO 488) (Prod. No. AG-27B-0005TD). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

## anti-β-Tubulin, mAb (rec.) (S11B)

| | |
|---|---|
| AG-27B-0008-C100 | 100 µg |

| | |
|---|---|
| **Clone:** | S11B |
| **Isotype:** | Human IgG2bλ |
| **Immunogen:** | Full length tubulin from pig brain |
| **Specificity:** | Recognizes human, mouse, rat, pig, drosophila and monkey β-tubulin |
| **Application:** | ELISA, ICC, WB |

**LIT:** C. Nizak, et al.; Traffic **7,** 739 (2003)

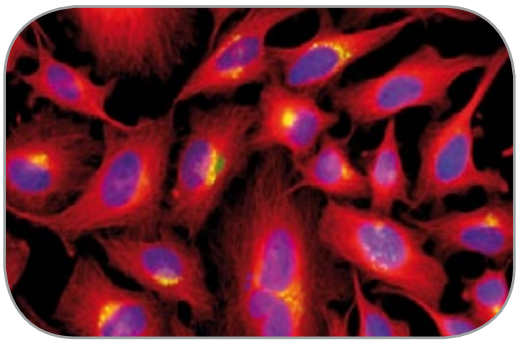

**FIGURE:** Human β-tubulin is detected by immunocytochemistry using anti-β-tubulin, mAb (rec.) (S11B)) (Prod. No. AG-27B-0008). *Picture courtesy of Dr. Sandrine Moutel & Dr. Franck Perez Lab, Curie Institute, Paris.*

## anti-Tubulin-GTP, mAb (rec.) (MB11)

| | |
|---|---|
| AG-27B-0009-C100 | 100 µg |

| | |
|---|---|
| **Clone:** | MB11 |
| **Isotype:** | Human IgG2bλ |
| **Immunogen:** | Full length GTP-λ-S loaded tubulin from pig brain |
| **Specificity:** | Recognizes human, mouse and drosophila tubulin-GTP |
| **Application:** | ICC |

**LIT:** A. Dimitrov, et al.; Science **322,** 1353 (2008)

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