

## Product datasheet for **TA336637**

### IGF2R Mouse Monoclonal Antibody [Clone ID: 2G11]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2G11
Applications:	CyTOF-ready, ELISA, FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Flow Cytometry: 1 ug per million cells, ELISA, Immunohistochemistry: 1:100, Immunocytochemistry/ Immunofluorescence: 1:10-1:250, Immunoprecipitation: 1:10-1:500, Western Blot: 1 ug/ml, Immunohistochemistry-Paraffin: 1:100, CyTOF-ready
Reactivity:	Human, Rat, Bovine, Primate
Host:	Mouse
Isotype:	IgG2a, kappa
Clonality:	Monoclonal
Immunogen:	Purified bovine Mannose 6 Phosphate Receptor (Cation independent) [UniProt# P08169]
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein A purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	insulin like growth factor 2 receptor
Database Link:	<a href="#">NP_000867</a> <a href="#">Entrez Gene 25151 Rat</a> <a href="#">Entrez Gene 3482 Human</a> <a href="#">P11717</a>



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**Background:** Mannose 6 phosphate is a sequence tag that plays a pivotal role in delivering proteins to the lysosome. Specifically, the mannose 6 phosphate sequence is tagged to N-linked oligosaccharides of lysosomal hydrolases as they pass through the cis-Golgi network. Once the lysosomal enzymes are tagged with the M6P sequence, they are destined to the late endosome by way of vesicular transport. After a low pH dissociates the M6P Receptor from its ligand, the M6P sequences are recycled. Additionally, M6P is bound by lectin in the immune system, and is converted to fructose 6-phosphate by mannose phosphate isomerase.

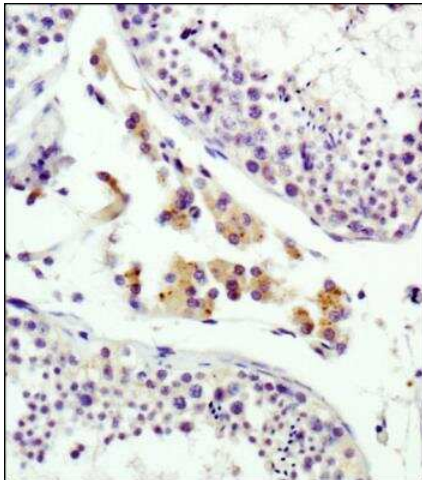
**Synonyms:** CD222; CIMPR; M6P-R; MPR1; MPRI

**Note:** By Western Blot, a 300 kDa protein representing Mannose 6 Phosphate Receptor is seen in HeLa cell extract under non-reducing conditions. Immunofluorescence staining of Mannose 6 Phosphate Receptor in HeLa cells with this antibody results in perinuclear staining. This antibody is also useful in Flow Cytometry, Immunoprecipitation, ELISA and Immunohistochemistry-on paraffin embedded sections.

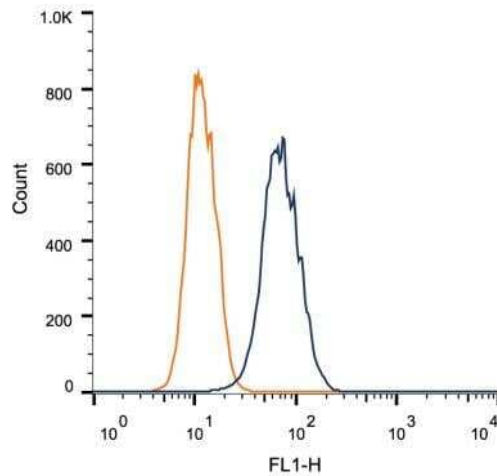
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Lysosome

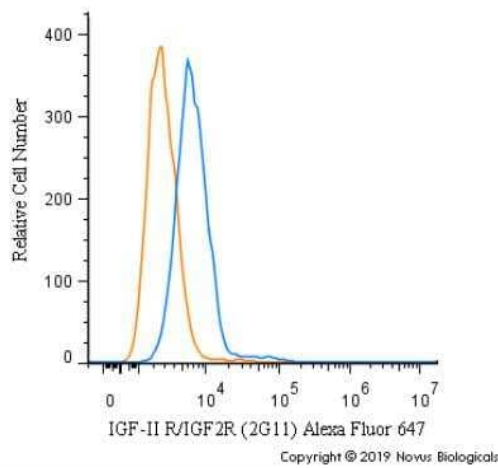
### Product images:



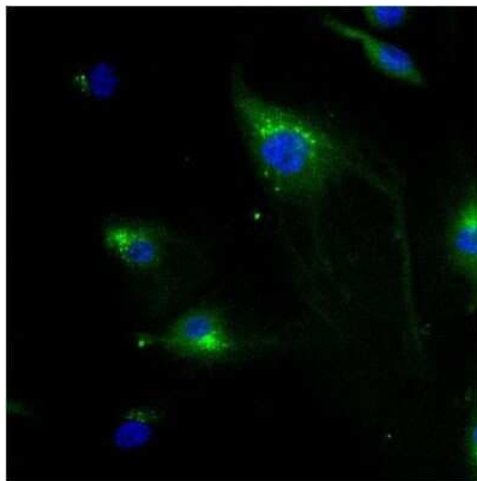
Immunohistochemistry: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) TA336637 - Staining of human testis using TA336637 antibody at 1:100.



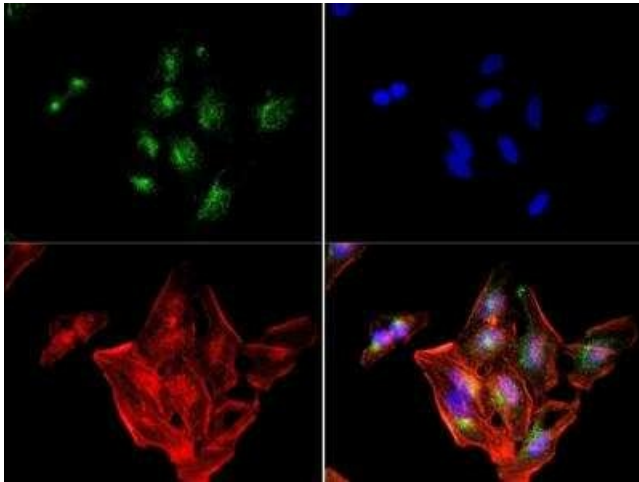
Flow Cytometry: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) TA336637 - Intracellular flow cytometric staining of  $1 \times 10^6$  MCF-7 cells using Mannose 6 Phosphate Receptor antibody (dark blue). Isotype control shown in orange. An antibody concentration of  $1 \mu\text{g}/1 \times 10^6$  cells was used.



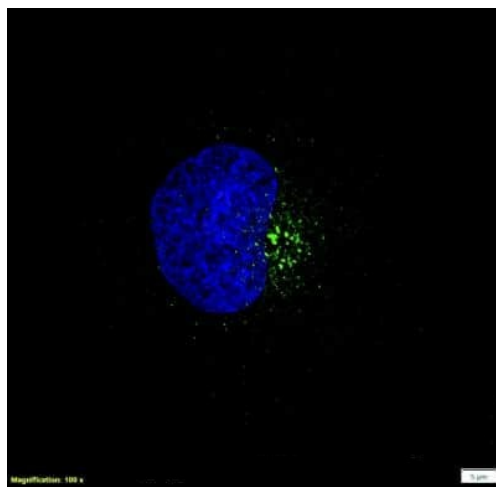
Flow Cytometry: IGF-II R/IGF2R Antibody (2G11) TA336637 - An intracellular stain was performed on MCF7 cells with IGF-II R/IGF2R [2G11] Antibody TA336637AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of  $5 \mu\text{g}/\text{mL}$  for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



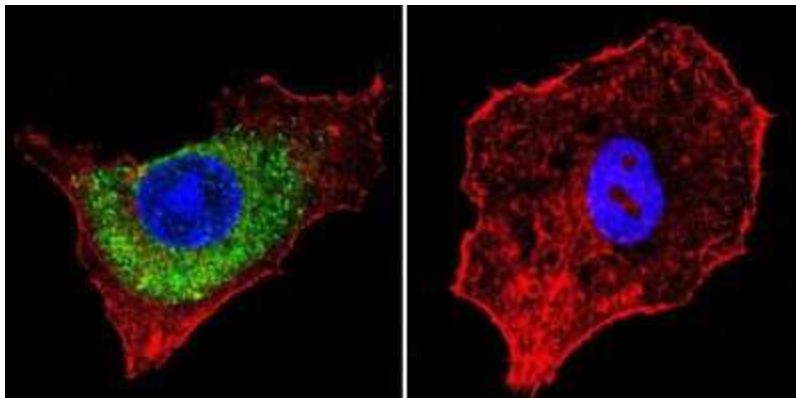
Immunocytochemistry/Immunofluorescence: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) TA336637 - HMVEC Cells



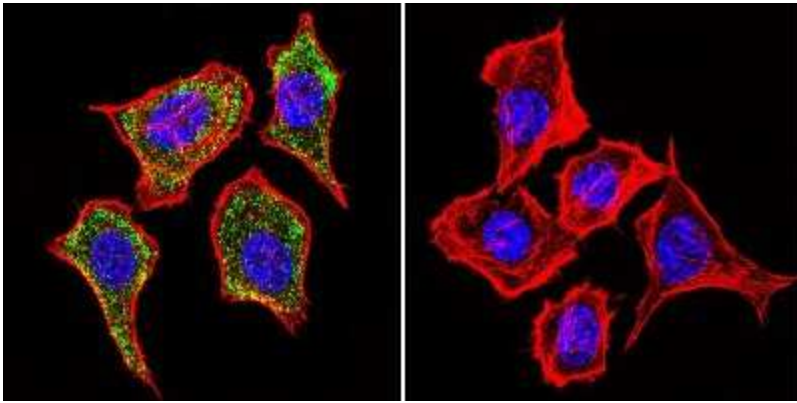
Immunocytochemistry/Immunofluorescence: IGF-II R/Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) TA336637 - Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) TA336637 - Mannose 6 Phosphate Receptor (Cation independent) antibody (2G11) was tested at (1:250) in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight-550 (red).



Immunocytochemistry/Immunofluorescence: IGF-II R/IGF2R Antibody (2G11) TA336637 - HeLa cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.05% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-IGF-II R/IGF2R Antibody (2G11) TA336637 at 1 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



Immunocytochemistry/Immunofluorescence: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) TA336637 - Mannose 6-Phosphate Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Mannose 6-Phosphate Receptor at a dilution of 1:20 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



Immunocytochemistry/Immunofluorescence: Mannose 6 Phosphate Receptor (Cation independent) Antibody (2G11) TA336637 - Staining in HeLa Cells. Mannose 6-Phosphate Receptor staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Mannose 6-Phosphate Receptor at a dilution of 1:20 over night at 4 C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody.