

MCF10A-HER2

Catalogue number: 157986

Sub-type: Continuous

Images:

Contributor

Inventor: Richard Grose ; Gabriella Ficz ; Ateequllah Hayat

Institute: Queen Mary University of London

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: MCF10A-HER2

Alternate name:

Class:

Conjugate:

Description: Expressed at low levels in normal breast tissues but overexpressed in a subset of breast and ovarian cancers. The GFP is in the same construct as the inducible HER2 but both genes are regulated by two different promoters. GFP expression is under the control of a weak EF1 promoter whereas the HER2 is induced by a strong TRE promoter.

Purpose:

Parental cell: MCF10A

Organism:

Tissue: Breast

Model: Immortalised Line

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: Inducible HER2 construct was stably transduced in MCF10A cell line using a third generation lentiviral transduction system.

Formulation:

Recommended controls:

Any other HER2 cell line such as BT474 may be used as a positive control

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Human Epidermal Receptor 2 (HER2/EBB2/neu), overexpressed in 25% breast cancers, treatments include Trastuzumab and Lapatinib. This plasmid also contains GFP for selection and tracking purposes.

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:

Application notes: The GFP is in the same construct as the inducible HER2 but both genes are regulated by two different promoters. GFP expression is under the control of a weak EF1a promoter whereas the HER2 is induced by a strong TRE promoter.

Handling

Format: Frozen

Concentration:

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer:

Storage conditions:

Shipping conditions: Dry ice

Related tools

Related tools:

References

References: Keenan et al. 2012. Exp Cell Res. 318(5):593-602. PMID: 22281030.

CancerTools.org