Anti-pS114-BRCA1 [3C10G8]

Catalogue number: 156496
Sub-type: Primary antibody
Images:

Contributor

Inventor: Jo Morris ; Ruth Densham
Institute: University of Birmingham
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-pS114-BRCA1 [3C10G8]

Alternate name: pS114, BRCA1

Class: Monoclonal
Conjugate: Unconjugated
Description: BRCA1 proteins protect stalled replication forks from degradation by nucleases, through pathways that involve RAD51. Specifically, BRCA1 in complex with BARD1, and not the canonical BRCA1-PALB2 interaction, is required for fork protection. BRCA1-BARD1 is regulated by a conformational change mediated by the phosphorylation-directed prolyl isomerase PIN1. PIN1 activity enhances BRCA1-BARD1 interaction with RAD51, thereby increasing the presence of RAD51 at stalled replication structures.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype:
Reactivity:
Selectivity:
Host: Mouse
Immunogen:
Immunogen UNIPROT ID:
Sequence:
Growth properties:
Production details:
Formulation:

Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: pS114-BRCA1

Target alternate names:

Target background: BRCA1 proteins protect stalled replication forks from degradation by nucleases, through pathways that involve RAD51. Specifically, BRCA1 in complex with BARD1, and not the canonical BRCA1PALB2 interaction, is required for fork protection. BRCA1BARD1 is regulated by a conformational change mediated by the phosphorylation-directed prolyl isomerase PIN1. PIN1 activity enhances BRCA1BARD1 interaction with RAD51, thereby increasing the presence of RAD51 at stalled replication structures.

Molecular weight:

Ic50:

Applications

Application: IF ; IP ; WB
Application notes:

Handling

Format: Liquid
Concentration: 0.9-1.1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer: PBS with 0.02% azide
Storage conditions: -15° C to -25° C
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Toshiyama et al. 2019. Oncogene. 38(2):244-260. PMID: 30089817.