

Product datasheet for **AP55916PU-S**

FANCD2 pSer222 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: 1:500~1:1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide sequence around phosphorylation site of serine 222 (G-D-S(p)-Q-H) derived from Human FANCD2 (KLH-conjugated)
Specificity:	The antibody detects endogenous level of FANCD2 only when phosphorylated at serine 222.
Formulation:	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography using epitope-specific peptide
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	166 kDa
Gene Name:	Fanconi anemia complementation group D2
Database Link:	Entrez Gene 2177 Human Q9BXW9



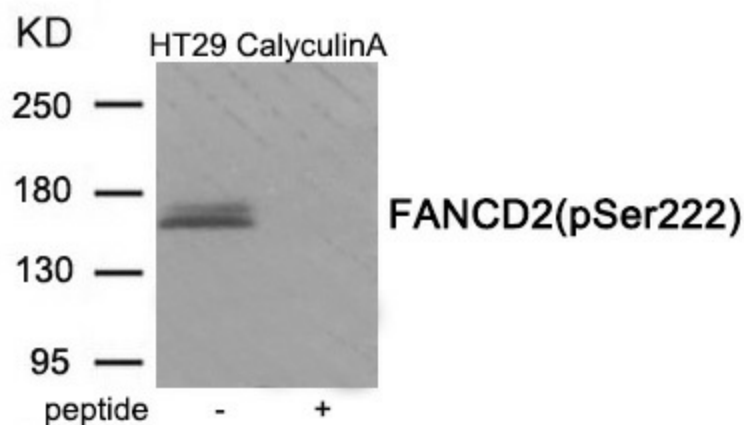
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Background:

Required for maintenance of chromosomal stability. Promotes accurate and efficient pairing of homologs during meiosis. Involved in the repair of DNA double-strand breaks, both by homologous recombination and single-strand annealing. May participate in S phase and G2 phase checkpoint activation upon DNA damage. Plays a role in preventing breakage and loss of missegregating chromatin at the end of cell division, particularly after replication stress. Required for the targeting, or stabilization, of BLM to non-centromeric abnormal structures induced by replicative stress. Promotes BRCA2/FANCD1 loading onto damaged chromatin. May also be involved in B-cell immunoglobulin isotype switching.

Synonyms:

Fanconi anemia group D2 protein, FACD2, FACD

Product images:

Western blot analysis of extracts from HT29 cells treated with CalyculinA using Phospho-FANCD2 (Ser222) Antibody. The lane on the right is treated with the antigen-specific peptide.