

DESCRIPTION

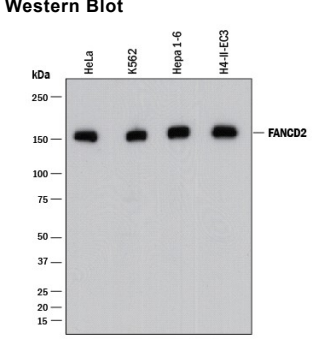
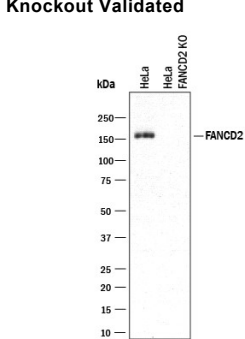
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human FANCD2 in direct ELISAs. Detects human, mouse, and rat FANCD2 in Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1290C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FANCD2 Glu11-Glu230 Accession # Q9BXW9
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Knockout Validated	FANCD2 is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in FANCD2 knockout HeLa cell line.	

DATA

<p>Western Blot</p>  <p>Detection of Human, Mouse, and Rat FANCD2 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, K562 human chronic myelogenous leukemia cell line, Hepa 1-6 mouse hepatoma cell line, and H4-II-E-C3 rat hepatoma cell line. PVDF membrane was probed with 0.5 µg/mL of Rabbit Anti-Human/Mouse/Rat FANCD2 Monoclonal Antibody (Catalog # MAB93691) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for FANCD2 at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Knockout Validated</p>  <p>Western Blot Shows Human FANCD2 Specificity by Using Knockout Cell Line. Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and FANCD2 knockout HeLa cell line (KO). PVDF membrane was probed with 0.5 µg/mL of Rabbit Anti-Human/Mouse/Rat FANCD2 Monoclonal Antibody (Catalog # MAB93691) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for FANCD2 at approximately 150 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Fanconi anemia group D2 protein, encoded by the FANCD2 gene, is a member of the Fanconi anemia complementation (FANC) group that also includes FANCA, FANCB, FANCC, FANCD1 (also called BRCA2), FANCE, FANCF, FANCG, and FANCL. The members of the Fanconi anemia complementation group share little sequence similarities.