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11-1048: Polyclonal Antibody to 14-3-3

Clonality :	Polyclonal
Application :	WB
Reactivity :	Human
Gene :	YWHAQ
Gene ID :	10971
Uniprot ID :	P27348
Format :	Purified
Alternative Name :	14-3-3 protein T-cell, 14-3-3 protein tau, Protein HS1, YWHAQ
Isotype :	Rabbit IgG
Immunogen Information :	A partial length recombinant 14-3-3 protein (amino acids 20-225) was used as the immunogen for this antibody.

Description

YWHAQ, also known as 14-3-3 tau (14-3-3tau) is a a phosphoserine-binding protein and a member of the 14-3-3 family of proteins. The 14-3-3 family members are dimeric phosphoserine/ phosphothreonine-binding proteins, which are involved in a very diverse spectrum of signaling pathways. YWHAQ plays a critical role in the regulation of E2F1 stability. It binds to Ser31-phosphorylated E2F1 and inhibits the ubiquitination of E2F1 during DNA damage. The binding of YWHAQ to E2F1 interferes with the function of an E31 ligase and therefore inhibits the ubiquitination and degradation of E2F1. This interaction is required for the expression and induction of several E2F1 apoptotic target genes as well as apoptosis during DNA damage.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein A Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 1-2 µg/ml

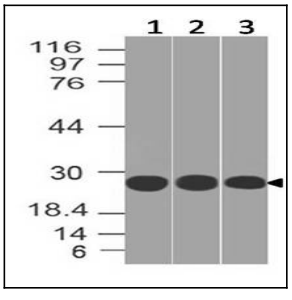

Figure-1: Western blot analysis of 14-3-3. Anti-14-3-3 antibody (11-1048) was used at 1 µg/ml on (1) MOLT-4, (2) A431 and (3) MCF-7 lysates.