Synaptic Systems

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WRB

Cat.No. 324 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H_2O, then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 1000 (AP staining) **IP**: not tested yet **ICC**: not tested yet **IHC**: not tested yet **IHC-P/FFPE**: not tested yet
Immunogen	Recombinant protein corresponding to AA 40 to 94 from human WRB (UniProt Id: O00258)
Reactivity	Reacts with: human (O00258), rat (Q6P6S5), mouse (Q8K0D7). Other species not tested yet.
Specificity	Specific for WRB.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The widely expressed tryptophan (**W**)-**r**ich **b**asic protein (**WRB**), also known as **c**ongenital **h**eart **d**isease protein **5** (**CHD 5**) has initially been described as a nuclear protein that plays a potential role in the pathogenesis of CHD in down syndrome patients.
Recently this protein has been identified as the receptor for TRC40/Asna1-mediated insertion of tail-anchored proteins into the ER membrane.

Selected General References

WRB and CAML are necessary and sufficient to mediate tail-anchored protein targeting to the ER membrane.
Vilardi F, Stephan M, Clancy A, Janshoff A, Schwappach B
PloS one (2014) 9(1): e85033.

WRB is the receptor for TRC40/Asna1-mediated insertion of tail-anchored proteins into the ER membrane.
Vilardi F, Lorenz H, Dobberstein B
Journal of cell science (2011) 124(Pt 8): 1301-7.

Identification and characterization of a new human cDNA from chromosome 21q22.3 encoding a basic nuclear protein.
Egeo A, Mazzocco M, Sotgia F, Arrigo P, Oliva R, Bergonòn S, Nizetic D, Rasore-Quartino A, Scartezzini P
Human genetics (1998) 102(3): 289-93.