

## WRB

Cat.No. 324 103; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> yes <b>ICC:</b> not tested yet <b>IHC:</b> not tested yet <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 30 to 99 from human WRB (UniProt Id: O00258)
Reactivity	Reacts with: rat (Q6P6S5), mouse (Q8K0D7), human (O00258). Other species not tested yet.
Specificity	Specific for WRB (K.D. verified)

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

The widely expressed tryptophan (**W**)-rich basic protein (**WRB**), also known as congenital heart disease 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 References SYSY Antibodies

Tail-anchored Protein Insertion in Mammals: FUNCTION AND RECIPROCAL INTERACTIONS OF THE TWO SUBUNITS OF THE TRC40 RECEPTOR.

Colombo SF, Cardani S, Maroli A, Vitiello A, Soffientini P, Crespi A, Bram RF, Benfante R, Borgese N  
The Journal of biological chemistry (2016) 291(29): 15292-306. **WB; KD verified; tested species: rat**

Discrimination between the endoplasmic reticulum and mitochondria by spontaneously inserting tail-anchored proteins.

Figueiredo Costa B, Cassella P, Colombo SF, Borgese N  
Traffic (Copenhagen, Denmark) (2018) 19(3): 182-197. **WB**

### 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, Bergonon S, Nizetic D, Rasore-Quartino A, Scartezzini P  
Human genetics (1998) 102(3): 289-93.