



## CD71 (461-760): sc-4282 WB

### BACKGROUND

CD71, also known as the transferrin receptor (TFR), is a type II membrane glycoprotein that exists as a disulfide-linked homodimer of two identical 95 kDa subunits. CD71 binds to two molecules of transferrin and a serum iron-transport protein and directs the cellular uptake of iron via receptor-mediated endocytosis. CD71 is expressed, typically at high levels, on all proliferating cells, reticulocytes and erythroid precursors. It is not expressed on resting leukocytes, but is upregulated upon activation of lymphocytes, monocytes and macrophages. CD71 is also found on most dividing cells and on brain endothelium. A second transferrin receptor, TFR2, also mediates the uptake of transferrin-bound iron. TFR2 is a homodimer of two 90 kDa subunits and is highly expressed in liver as well as in hepatocytes and erythroid precursors. Mutations in the TFR2 gene result in hereditary hemochromatosis type III (HFE3), an iron overloading disorder predominant in Caucasians.

### REFERENCES

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### SOURCE

CD71 (461-760) is expressed in *E. coli* as 60 kDa tagged fusion protein corresponding to amino acids 461-760 mapping within the extracellular domain of CD71 of human origin.

### PRODUCT

CD71 (461-760) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

### APPLICATIONS

CD71 (461-760) is suitable as a Western blotting control for sc-7087, sc-7088 and sc-9099.

### STORAGE

Store at -20° C; stable for one year from the date of shipment.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.