

Recombinant DGRmAb[®]

Band 3 (DGR15593) Rabbit mAb

db11398

Package : 10µL 20µL 50µL 100µL

Product Name : Band 3 (DGR15593) Rabbit mAb Cat.No.: db11398 Synonyms : DI; FR; SW; WD; WR; AE1; CHC; SAO; WD1; BND3; EPB3; SPH4; CD233; EMPB3; RTA1A Application : WB, IHC-P Reactivity : Human Host species : Rabbit

Background

the erythrocyte plasma membrane, where it functions as a chloride/bicarbonate exchanger involved
in carbon dioxide transport from tissues to lungs. The protein comprises two domains that are
structurally and functionally distinct. The N-terminal 40kDa domain is located in the cytoplasm and
acts as an attachment site for the red cell skeleton by binding ankyrin. The glycosylated C-terminal
membrane-associated domain contains 12-14 membrane spanning segments and carries out the
stilbene disulphonate-sensitive exchange transport of anions. The cytoplasmic tail at the extreme
C-terminus of the membrane domain binds carbonic anhydrase II. The encoded protein associates
with the red cell membrane protein glycophorin A and this association promotes the correct folding
and translocation of the exchanger. This protein is predominantly dimeric but forms tetramers in the
presence of ankyrin. Many mutations in this gene are known in man, and these mutations can lead
to two types of disease: destabilization of red cell membrane leading to hereditary spherocytosis,
and defective kidney acid secretion leading to distal renal tubular acidosis. Other mutations that do
not give rise to disease result in novel blood group antigens, which form the Diego blood group
system. Southeast Asian ovalocytosis (SAO, Melanesian ovalocytosis) results from the
heterozygous presence of a deletion in the encoded protein and is common in areas where
Plasmodium falciparum malaria is endemic. One null mutation in this gene is known, resulting in
very severe anemia and nephrocalcinosis. [provided by RefSeq, Jul 2008]
A synthetic peptide of human Band 3
6521
P02730
DI; FR; SW; WD; WR; AE1; CHC; SAO; WD1; BND3; EPB3; SPH4; CD233; EMPB3; RTA1A
Human
WB, IHC-P

The protein encoded by this gene is part of the anion exchanger (AE) family and is expressed in

dvagbvo 戴格生物

Recommended dilution	WB: 1:1000-1:5000
	IHC-P: 1:100-1:200
Calculated MW	102 kDa
Observed MW	102 kDa
Host species	Rabbit
Clonality	Monoclonal
Clonality No.	DGR15593
lsotype	lgG
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium
	azide and 0.05% BSA. Stable for 12 months from date of receipt.
5	Western blot detection of Band 3/AF 1 in 3T3 cell lysates using Band 3/AF 1 antibody/1:1000



Western blot detection of Band 3/AE 1 in 3T3 cell lysates using Band 3/AE 1 antibody(1:1000 diluted).