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Product datasheet for TA306405

DARC (ACKR1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 2.5 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	DARC antibody was raised against a 16 amino acid peptide from near the carboxy terminus of human DARC.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	atypical chemokine receptor 1 (Duffy blood group)
Database Link:	NP_001116423 Entrez Gene 13349 MouseEntrez Gene 689105 RatEntrez Gene 2532 Human Q16570

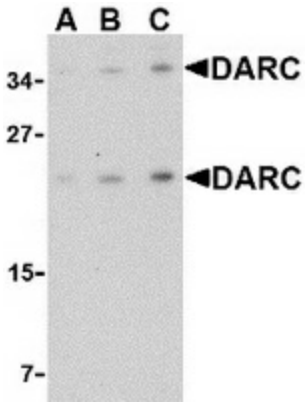
View online »

Background: DARC, also known as the Duffy antigen/chemokine receptor, is a seven-transmembrane protein homologous to the classical chemokine G-protein coupled receptors (GPCRs) with the exception of the motif required for G protein coupling. DARC can bind with high affinity several chemokines without transducing any signal, suggesting it may modulate the signals normally induced by these chemokines. Recently, DARC was found to interact with KAI1, a four transmembrane protein recently identified as a tumor metastasis suppressor protein. It is thought that tumor cells dislodged from the primary tumor and expressing KAI1 interact with DARC proteins expressed on vascular cells, transmitting a senescent signal to the tumor cells, while tumor cells that have lost KAI1 expression can proliferate and potentially give rise to metastases. At least three isoforms of DARC are known to exist.

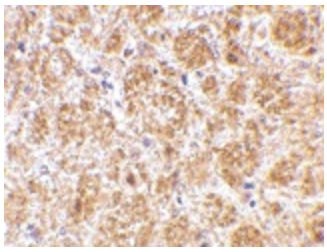
Synonyms: CCBP1; CD234; DARC; Dfy; FY; GPD; GpFy; WBCQ1

Protein Families: Druggable Genome, GPCR, Transmembrane

Product images:



Western blot analysis of DARC in mouse brain tissue lysate with DARC antibody at (A) 0.5, (B) 1 and (C) 2 ug/ml.



Immunohistochemistry of DARC in mouse brain tissue with DARC antibody at 2.5 ug/ml.