

## Product datasheet for **TA306406**

### DARC (ACKR1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	DARC antibody was raised against a 18 amino acid peptide from near the amino 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:	<a href="#">NP_001116423</a> <a href="#">Entrez Gene 2532 Human</a> <a href="#">Q16570</a>



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**Background:**

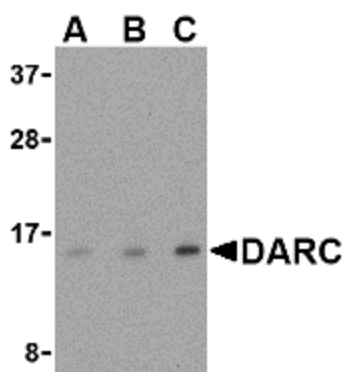
DARC, also known as the Duffy antigen/chemokine receptor, is a seven-transmembrane protein homologous to the classical chemokine G-protein coupled receptors (GPCRs) with the exception of the motif required for G protein coupling. DARC can bind with high affinity several chemokines without transducing 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:**

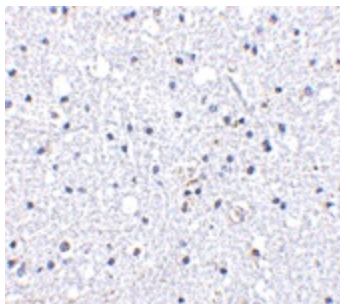
CCBP1; CD234; DARC; Dfy; FY; GPD; GpFy; WBCQ1

**Protein Families:**

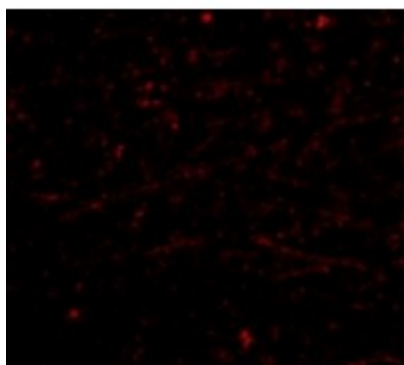
Druggable Genome, GPCR, Transmembrane

**Product images:**

Western blot analysis of DARC in PC-3 cell lysate with DARC antibody at (A) 0.5, (B) 1 and (C) 2 ug/ml.



Immunohistochemistry of DARC in human brain tissue with DARC antibody at 5 ug/ml.



Immunofluorescence of DARC in Human Brain cells with DARC antibody at 20 ug/mL.