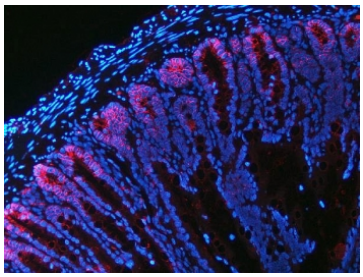
NKCC1 Antibody / SLC12A2 [clone 6G7D2] (RQ7382)

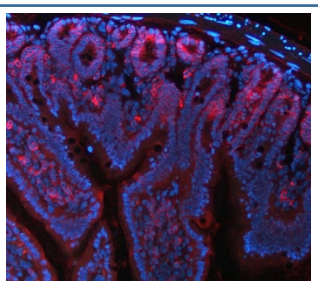
Catalog No.	Formulation	Size
RQ7382	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

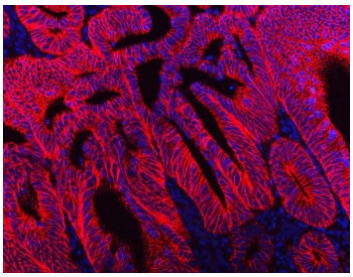
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	6G7D2
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P55011
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This NKCC1 antibody is available for research use only.



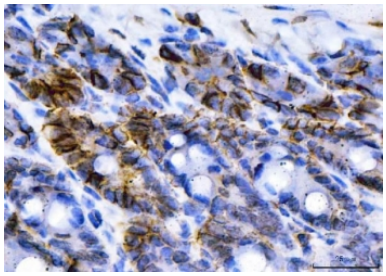
Immunofluorescent staining of FFPE rat colon tissue with NKCC1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



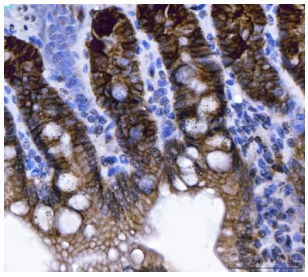
Immunofluorescent staining of FFPE mouse colon tissue with NKCC1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



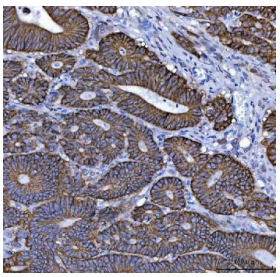
Immunofluorescent staining of FFPE human colorectal adenocarcinoma tissue with NKCC1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



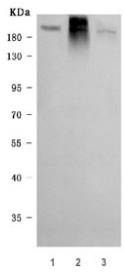
IHC staining of FFPE mouse colon tissue with NKCC1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat colon tissue with NKCC1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colorectal adenocarcinoma tissue with NKCC1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) A549, 2) Caco-2 and 3) PC-3 cell lysate with NKCC1 antibody. Expected molecular weight ~130 kDa but may be observed at higher molecular weights due to glycosylation.

Description

Solute carrier family 12 (sodium/potassium/chloride transporters), member 2, also known as NKCC1, is widely distributed throughout the body, especially in organs that secrete fluids, called exocrine glands. By fluorescence in situ hybridization, this gene is mapped to chromosome 5q23.3. The protein encoded by this gene mediates sodium and chloride transport and reabsorption. The encoded protein is a membrane protein and is important in maintaining proper ionic balance and cell volume. This protein is phosphorylated in response to DNA damage. Three transcript variants encoding two different isoforms have been found for this gene.

Application Notes

Optimal dilution of the NKCC1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids K889-K943) was used as the immunogen for the NKCC1 antibody.

Storage

After reconstitution, the NKCC1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.