

Endosomal Marker Antibody Sampler Kit

HAK21027



Contains Product	Quantity	Applications	Species reactivity	MW(kDa)
Caveolin-1 [ET1603-1]	20μl	WB,IF-Cell,IF-Tissue,IHC-P	H,M,R	20 kDa
Clathrin heavy chain [ET1704-50]	20μl	WB,IHC-P	H,M,R,Mk	180kDa
EEA1 [HA722147]	20μl	WB,IF-Cell,FC	H,M,R,Mk	162 kDa
Rab5 [ET1609-27]	20μl	WB,IHC-P,IF-Cell	H,M,R	24 kDa
RAB7 [ET1611-96]	20μl	WB,IF-Cell,IF-Tissue,IHC-P,FC	H,M,R	23 kDa
Rab11A [HA721552]	20μl	WB,IHC-P	H,M,R	24 kDa
HRP-Goat Anti-Rabbit IgG (H+L) [HA1001]	100μl	WB,ELISA,IHC-P	Rab	

Description: Endosomal Marker Antibody Sampler Kit provides an economical means of distinguishing endosomes in the early, late, and recycling phases. The kit includes enough antibody to perform two western blot experiments with each primary antibody.

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Background Endosomes are formed by the invagination of the plasma membrane to form vesicles in an effort to recycle components of the cell. Endosomes can be coated in clathrin when vesicles form at clathrin-coated pits.

Caveolins are 21-24 kDa integral proteins that interact with cholesterol and are the main structural components of the cholesterol/sphingolipid-enriched plasma membrane caveolae.

Each stage of endosome maturation is marked by a unique set of proteins. EEA1 is an early endosome marker that is essential for membrane fusion and trafficking. Members of the ras superfamily of small Rab GTPases, specifically Rab5, Rab7, and Rab11 are markers of the early, late and recycling endosomes.

Database links: UniProt ID: Q03135, P49817, P41350, Q00610, Q68FD5, P11442, Q15075, Q8BL66, 314764, P20339, Q9CQD1, M0RC99, P51149, P51150, P09527, P62491, P62492, P62494

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

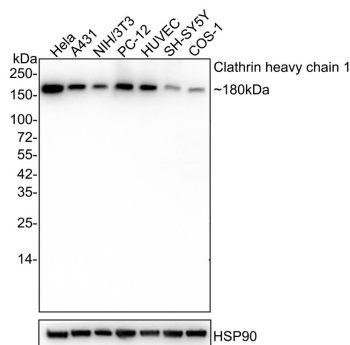
Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Images

Fig1: Western blot analysis of Clathrin heavy chain on different lysates with Rabbit anti-Clathrin heavy chain antibody (ET1704-50) at 1/1,000 dilution.



Lane 1: HeLa cell lysate
 Lane 2: A431 cell lysate
 Lane 3: NIH/3T3 cell lysate
 Lane 4: PC-12 cell lysate
 Lane 5: HUVEC cell lysate
 Lane 6: SH-SY5Y cell lysate
 Lane 7: COS-1 cell lysate

Lysates/proteins at 20 μ g/Lane.

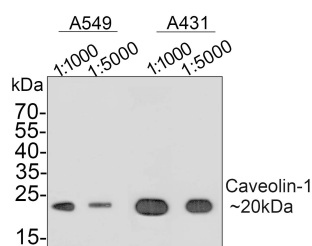
Predicted band size: 180kDa
 Observed band size: 180 kDa

Exposure time: 10 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (ET1704-50) at 1/1,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of Caveolin-1 on different lysates with Rabbit anti-Caveolin-1 antibody (ET1603-1) at different dilutions.



Lane 1/2: A549 cell lysate
 Lane 3/4: A431 cell lysate

Lysates/proteins at 10 μ g/Lane.

Predicted band size: 20 kDa
 Observed band size: 20 kDa

Exposure time: 2 minutes;
 12% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (ET1603-1) at different dilutions were used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
 HUABIO
 www.huabio.cn

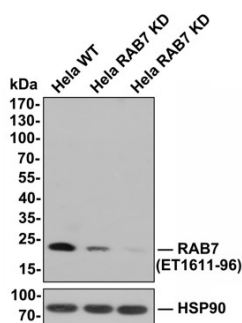


Fig3: All lanes: Western blot analysis of RAB7 with anti-RAB7 antibody (ET1611-96) at 1:500 dilution.

Lane 1: Wild-type HeLa whole cell lysate (10 μ g).

Lane 2/3: RAB7 knockdown HeLa whole cell lysate (10 μ g).

ET1611-96 was shown to specifically react with RAB7 in wild-type HeLa cells. Weakened bands were observed when RAB7 knockdown samples were tested. Wild-type and RAB7 knockdown samples were subjected to SDS-PAGE. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM in TBST for 1 hour at room temperature. The primary antibody (ET1611-96, 1:500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG-HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

Fig4: Western blot analysis of RAB7 on different lysates with Rabbit anti-RAB7 antibody (ET1611-96) at 1/5,000 dilution.

Lane 1: HeLa cell lysate

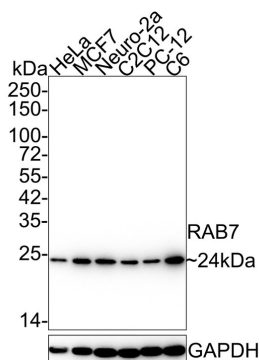
Lane 2: MCF7 cell lysate

Lane 3: Neuro-2a cell lysate

Lane 4: C2C12 cell lysate

Lane 5: PC-12 cell lysate

Lane 6: C6 cell lysate



Lysates/proteins at 15 μ g/Lane.

Predicted band size: 24 kDa

Observed band size: 24 kDa

Exposure time: 17 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1611-96) at 1/5,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

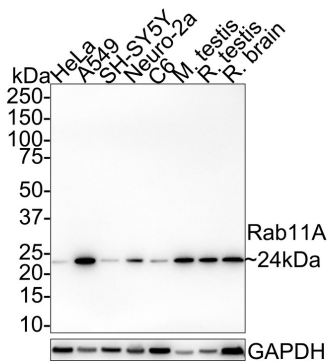


Fig5: Western blot analysis of Rab11A on different lysates with Rabbit anti-Rab11A antibody (HA721552) at 1/1,000 dilution.

Lane 1: HeLa cell lysate (20 μ g/Lane)
 Lane 2: A549 cell lysate (20 μ g/Lane)
 Lane 3: SH-SY5Y cell lysate (20 μ g/Lane)
 Lane 4: Neuro-2a cell lysate (20 μ g/Lane)
 Lane 5: C6 cell lysate (20 μ g/Lane)
 Lane 6: Mouse testis tissue lysate (40 μ g/Lane)
 Lane 7: Rat testis tissue lysate (40 μ g/Lane)
 Lane 8: Rat brain tissue lysate (40 μ g/Lane)

Predicted band size: 24 kDa

Observed band size: 24 kDa

Exposure time: 2 minutes 37 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721552) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Huotari, J. and Helenius, A. (2011) EMBO J 30, 3481-500.
2. Rodriguez-Boulán, E. et al. (2005) Nat Rev Mol Cell Biol 6, 233-47.
3. Okamoto, T. et al. (1998) J Biol Chem 273, 5419-22.
4. Christoforidis, S. et al. (1999) Nature 397, 621-5.
5. Zerial, M. and McBride, H. (2001) Nat Rev Mol Cell Biol 2, 107-17.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn