

# eth\_getTransactionByBlockHashAndIndex

Returns information about a transaction given block hash and transaction index position.

## Parameters

- block hash
  - : [Required
  - ] A string representing the hash (32 bytes) of a block.
- transaction index position
  - : [Required
  - ] A hexadecimal of the integer representing the position in the block.

## Returns

A transaction object, or null when no transaction was found. The transaction object will consist of the following keys and their values:

- accessList
  - : [optional
  - ] A list of addresses and storage keys accessed by the transaction. See [access list transactions](#)
- .
- blockHash
  - : 32 bytes. A hash of the block including this transaction.null
  - when it's pending.
- blockNumber
  - : The number of the block including this transaction.null
  - when it's pending.
- chainID
  - : [optional
  - ] chain ID specifying the network. Returned only for [EIP-1559 transactions](#)
- .
- from
  - : 20 bytes. The address of the sender.
- gas
  - : Gas provided by the sender.
- gasPrice
  - : Gas price provided by the sender in Wei.
- hash
  - : 32 bytes. The hash of the transaction.
- input
  - : The data sent along with the transaction.
- maxPriorityFeePerGas
  - : [optional
  - ] Maximum fee, in Wei, the sender is willing to pay per gas above the base fee. See [EIP-1559 transactions](#)
- .
- maxFeePerGas
  - : [optional
  - ] Maximum total fee (base fee + priority fee), in Wei, the sender is willing to pay per gas. See [EIP-1559 transactions](#)
- .
- nonce
  - : The number of transactions made by the sender prior to this one.
- r
  - : 32 bytes. The ECDSA signaturer
- .
- s
  - : 32 bytes. The ECDSA signatures
- .
- to
  - : 20 bytes. The address of the receiver.null
  - when it's a contract creation transaction.
- transactionIndex
  - : The transaction's index position in the block, in hexadecimal.null
  - when it's pending.
- type
  - : The [transaction type](#)

- .
- v
- : The ECDSA recovery ID.
- value
- : The value transferred in Wei.
- yParity
- : [optional
- ] Parity (0x0
- for even,0x1
- for odd) of the y-value of [secp256k1](#)
- signature.

## Example

Replace YOUR-API-KEY with an API key from your [Infura dashboard](#) .

### Request

- cURL
- WSS

```
curl https://mainnet.infura.io/v3/YOUR-API-KEY \-X POST \-H "Content-Type: application/json" \-d
'{"jsonrpc":"2.0","method":"eth_getTransactionByBlockHashAndIndex","params":
["0xb3b20624f8f0f86eb50dd04688409e5cea4bd02d700bf6e79e9384d47d6a5a35","0x0"],"id":1}' wscat -c
wss://mainnet.infura.io/ws/v3/YOUR-API-KEY -x
'{"jsonrpc":"2.0","method":"eth_getTransactionByBlockHashAndIndex","params":
["0xb3b20624f8f0f86eb50dd04688409e5cea4bd02d700bf6e79e9384d47d6a5a35","0x0"],"id":1}'
```

### Response

- JSON

```
{ "id" : 1, "jsonrpc" : "2.0", "result":{ "accessList":[],
"blockHash":"0xfdc2fb4ce6356fef28fda948d675182d5759d0c885ec9a4b7fff604a8167a118", "blockNumber":"0x11dd3de",
"chainId":"0x1", "from":"0x1f9090aae28b8a3dceadf281b0f12828e676c326", "gas":"0x565f", "gasPrice":"0x6f4d3132b",
"hash":"0x24ea08c3b1bc777a23d0373dd3f8a980455c7817d814c5f34df5a3e3caf5c9a1", "input":"0x",
"maxFeePerGas":"0x6f4d3132b", "maxPriorityFeePerGas":"0x0", "nonce":"0x63dbc",
"r":"0xd38fcf50bab3898938058cd0337e655d0fdc302b57807da83f59b27035055ed5",
"s":"0x300ae498fe06a5fa65ebb69fc2bd99a3fbbf991543ff3dce2c45c3b43c5113fd",
"to":"0x388c818ca8b9251b393131c08a736a67ccb19297", "transactionIndex":"0xa2", "type":"0x2", "v":"0x1",
"value":"0x2e463634a25a9a2", "yParity":"0x1" } }
```

Last updated on Apr 19, 2024 [Previous eth\\_getStorageAt](#) Next [eth\\_getTransactionByBlockNumberAndIndex](#)